BIOCHEMICAL JOURNAL

BIJOAK

AUTHOR AND
KEYWORD INDEXES
for volumes
401–408 (2007)

The Biochemical Society, London © 2008

Biochemical Journal

AUTHOR AND KEYWORD INDEXES

for volumes

401–408 (2007)

The Biochemical Society, London © 2008

Available from

Portland Customer Services, P.O. Box 32,
Commerce Way, Colchester CO2 8HP, U.K.
Fax (U.K.) 01206 799331
(from overseas) +44 1206 799331
e-mail sales@portland-services.com

All rights reserved. Apart from any fair dealing for the purposes of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patents Act, 1988, this publication may be reproduced, stored or transmitted, in any forms or by any means, only with the prior permission in writing of the publishers, or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency. Inquiries concerning reproduction outside those terms should be sent to the publishers at the above-mentioned address.

Compiled and composed by Aptara Inc., Delhi

Printed in Great Britain by The Charlesworth Group, Wakefield

Author Index

VOLUMES 401–408 (2007)

Aalto, J. *See* Jakobsson, E.
Abayasekara, D. R. E. *See* Sheldrick, E. L. R.
Abdelraheim, S. R. *See* O'Sullivan, D. B. D.
Abraham, R. *See* Nakayama, K.
Åbrink, M. *See* Braga, T.
Acharya, S. A.
——; Acharya, V. N.; Kanika, N. D.; Tsai, A. G.; Intaglietta, M.; Manjula, B. N.
Non-hypertensive tetraPEGylated canine haemoglobin: correlation between PEGylation, O_2 affinity and tissue oxygenation, 405:503
Acharya, S. A. *See* H , T.
Acharya, V. N. *See* Acharya, S. A.
Ackland, M. L. *See* Hardman, B.
Adams, D. R. *See* Baillie, G. S.
Adamski, J. *See* Lukacik, P.
Adamson, A. W. *See* Teran-Garcia, M.
Adisa, A. *See* Jackson, K. E.
Aebischer, O. F. *See* Cerantola, V.
Affourtit, C. *See* Crichton, P. G.
Agarwal, S. *See* Kishore, A. H.
Agassandian, M.
——; Miakotina, O. L.; Andrews, M.; Mathur, S. N.; Mallampalli, R. K.
Pseudomonas aeruginosa and $sPLA_2$ IB stimulate ABCA1-mediated phospholipid efflux via ERK-activation of PPARα–RXR, 403:409
Agbas, A.
——; Hui, D.; Wang, X.; Tek, V.; Zaidi, A.; Michaelis, E. K.
Activation of brain calcineurin (Cn) by Cu-Zn superoxide dismutase (SOD1) depends on direct SOD1–Cn protein interactions occurring *in vitro* and *in vivo*, 405:51
Aghajari, N. *See* Sonan, G. K.
Aguiló, I. *See* Iñarrea, P.
Aguirre, E. *See* Rodríguez-Juárez, F.
Agüero, F. *See* Niemirowicz, G.
Ahmad, F.
——; Lindh, R.; Tang, Y.; Weston, M.; Degerman, E.; Manganiello, V. C.
Insulin-induced formation of macromolecular complexes involved in activation of cyclic nucleotide phosphodiesterase 3B (PDE3B) and its interaction with PKB, 404:257
Ahmed, Y. *See* Spite, M.
Ahvazi, B. *See* Luo, R.
Airenne, K. J. *See* Helppolainen, S. H.
Akbari, A. *See* Shahbazzadeh, D.
Akerboom, J. *See* Wolterink-van Loo, S.
Åkerlund, H.-E. *See* Albertsson, P.-A.; Albertsson, P.-Å.
Akiyama, T. *See* Opassiri, R.
Alaei, S. *See* Tang, Z.
Alava, M. A. *See* Iñarrea, P.
Albertsson, P.-Å.
——; Köhnke, R.; Emek, S. C.; Mei, J.; Rehfeld, J. F.; Åkerlund, H.-E.; Erlanson-Albertsson, C.
Chloroplast membranes retard fat digestion and induce satiety: effect of biological membranes on pancreatic lipase/co-lipase, 401:727; 407:471 (Correction)
Alessi, D. R. *See* Bain, J.; Jaleel, M.; Pearce, L. R.; Sapkota, G. P.
Alewood, P. *See* Nair, D. G.
Alexandre, A. *See* Zoccarato, F.
Alfano, I.
——; Vora, P.; Mummery, R. S.; Mulloy, B.; Rider, C. C.
The major determinant of the heparin binding of glial cell-line-derived neurotrophic factor is near the N-terminus and is dispensable for receptor binding, 404:131
Algaba, A. *See* Domínguez-González, I.
Al-Karadaghi, S. *See* Dufe, V. T.
Allahverdiyeva, Y. *See* Sirpiö, S.
Allen, L.-A. H. *See* Nakano, Y.
Allocati, N. *See* Federici, L.
Almassy, J. *See* Altafaj, X.
Almeida, M. R. *See* Cardoso, I.
Al-Natour, Z. *See* Hassan, A. H.
Al-Taei, S. *See* Fretz, M. M.
Altafaj, X.
——; France, J.; Almassy, J.; Jona, I.; Rossi, D.; Sorrentino, V.; Mabrouk, K.; De Waard, M.; Ronjat, M.
Maurocalcine interacts with the cardiac ryanodine receptor without inducing channel modification, 406:309
Alvarez, M. N. *See* Piacenza, L.
Álvarez-Barrientos, A. *See* Cerezo-Guisado, M. I.
Alvarez-Curto, E.
——; Weening, K. E.; Schaap, P.
Pharmacological profiling of the *Dictyostelium* adenylate cyclases ACA, ACB and ACG, 401:309
Alvarez-Jaimes, L. *See* Ferrer, B.
Amariei, D. *See* Luo, R.
Ambrose, Z. *See* Nissley, D. V.
Amenta, P. S. *See* Myers, J. C.
Amo, T.
——; Brand, M. D.
Were inefficient mitochondrial haplogroups selected during migrations of modern humans? A test using modular kinetic analysis of coupling in mitochondria from cybrid cell lines, 404:345 (*See* Elson, J. L. for online-only commentary)
Amrhein, N. *See* Fitzpatrick, T. B.
Anagnostou, S. H. *See* Chaussade, C.
Anastasia, L. *See* Zanchetti, G.
Andrä, J.
——; Howe, J.; Garidel, P.; Rössle, M.; Richter, W.; Leiva-León, J.; Moriyon, I.; Bartels, R.; Gutsmann, T.; Brandenburg, K.
Mechanism of interaction of optimized *Limulus*-derived cyclic peptides with endotoxins: thermodynamic, biophysical and microbiological analysis, 406:297
Andreelli, F. *See* Guigas, B.
Andresen, M. *See* Stiel, A. C.
Andreu, A. L. *See* Montori-Grau, M.
Andrews, D. W. *See* Henderson, M. P. A.
Andrews, M. *See* Agassandian, M.
Andrews, N. C. *See* Wang, F.
Andrieu, J.-P. *See* Dycke, C.
Aneiros, A. *See* Salceda, E.
Anso, E. *See* Cruchaga, C.
Anthony, K. V. *See* Johnson, J. E.
Appel, M. H. *See* da Silveira, R. B.
Aquilina, J. A. *See* Ecroyd, H.
Ara, A. I. *See* Ou, X.
Arab, K. *See* Rossary, A.
Araki, W. *See* Hoshino, T.
Arcaro, A.
——; Doepfner, K. T.; Boller, D.; Guerreiro, A. S.; Shalaby, T.; Jackson, S. P.; Schoenwaelder, S. M.; Delattre, O.; Grotzer, M. A.; Fischer, B.
Novel role for insulin as an autocrine growth factor for malignant brain tumour cells, 406:57
Arcus, V. L. *See* Watson, R. P.
Argenton, F. *See* Manzoni, M.
Argon, Y. *See* Biswas, C.
Aria, V. *See* De Felice, M.
Arlt, A.
——; Minkenberg, J.; Kruse, M.-L.; Grohmann, F.; Fölsch, U. R.; Schäfer, H.
Immediate early gene-X1 interferes with 26 S proteasome activity by attenuating expression of the 19 S proteasomal components S5a/Rpn10 and S1/Rpn2, 402:367
Armstrong, C. *See* Sapkota, G. P.
Armstrong, J. *See* Beresford, N.
Arnau, J. *See* Mølgaard, A.
Arnaud, N.
——; Ravet, K.; Borlotti, A.; Touraine, B.; Boucherez, J.; Fizames, C.; Briat, J.-F.; Cellier, F.; Gaymard, F.
The iron-responsive element (IRE)/iron-regulatory protein 1 (IRP1)–cytosolic aconitase iron-regulatory switch does not operate in plants, 405:523
Arneson, L. S.
——; Miller, J.
The chondroitin sulfate form of invariant chain trimerizes with conventional invariant chain and these complexes are rapidly transported from the *trans*-Golgi network to the cell surface, 406:97
Aro, E.-M. *See* Sirpiö, S.
Aromataris, E. C. *See* Litjens, T.
Aronheim, A. *See* Weisz Hubsman, M.
Arsequell, G. *See* Cardoso, I.
Arthur, J. S. C. *See* Bain, J.; McCoy, C. E.
——; MAPK activation by radio waves, 405:e5 (online-only commentary on Friedman, J.)
Asao, H. *See* Iuchi, Y.
Ascenzi, P. *See* Nicolis, S.
Ashworth, J. *See* Bateman, R. L.
Asteriou, T. *See* Li, L.
Atkinson, K. J. *See* Sheth, P.
Auricchio, A. *See* Fraldi, A.
Awad, S. *See* Hassan, A. H.
Awano, K. *See* Saito, J.-i.

Baba, S. P. *See* Spite, M.
Badarau, A.
——; Damblon, C.; Page, M. I.
The activity of the dinuclear cobalt-β-lactamase from *Bacillus cereus* in catalysing the hydrolysis of β-lactams, 401:197

© 2008 Biochemical Society

Bader, S.
——; Kortholt, A.; Van Haastert, P. J. M.
Seven *Dictyostelium discoideum* phosphodiesterases degrade three pools of cAMP and cGMP, 402:153
Baillie, G. S.
——; Adams, D. R.; Bhari, N.; Houslay, T. M.; Vadrevu, S.; Meng, D.; Li, X.; Dunlop, A.; Milligan, G.; Bolger, G. B.; Klussmann, E.; Houslay, M. D.
Mapping binding sites for the PDE4D5 cAMP-specific phosphodiesterase to the N- and C-domains of β-arrestin using spot-immobilized peptide arrays, 404:71
Bain, J. *See* Sapkota, G. P.
——; Plater, L.; Elliott, M.; Shpiro, N.; Hastie, C. J.; McLauchlan, H.; Klevernic, I.; Arthur, J. S. C.; Alessi, D. R.; Cohen, P.
The selectivity of protein kinase inhibitors: a further update, 408:297
Baixeras, E. *See* Ferrer, B.
Bajad, S. *See* Pisciotta, J. M.
Baker, E. N. *See* Watson, R. P.
Baker, L.-J. *See* Bateman, R. L.
Baker, R. *See* Sadowski, M.
Baldacci, G. *See* Blanca, G.
Ballabio, A. *See* Fraldi, A.
Ballatori, N. *See* Li, N.
Balschi, J. A. *See* Koh, H.-J.
Banfi, B. *See* Nakano, Y.; Serrander, L.
Bannister, M. L.
——; Hamada, T.; Murayama, T.; Harvey, P. J.; Casarotto, M. G.; Dulhunty, A. F.; Ikemoto, N.
Malignant hyperthermia mutation sites in the Leu^{2442}–Pro^{2477} (DP4) region of RyR1 (ryanodine receptor 1) are clustered in a structurally and functionally definable area, 401:333
Barbat, C.
——; Trucy, M.; Sorice, M.; Garofalo, T.; Manganelli, V.; Fischer, A.; Mazerolles, F.
$p56^{lck}$, LFA-1 and PI3K but not SHP-2 interact with G_{M1}- or G_{M3}-enriched microdomains in a CD4–$p56^{lck}$ association-dependent manner, 402:471
Barbeyron, T. *See* Guibet, M.
Barbosa-Sicard, E. *See* Muller, D. N.
Barbour, S. E. *See* Song, Y.
Barchowsky, A. *See* O'Hara, K. A.
Barette, C. *See* Laudet, B.
Barnham, K. J. *See* Caragounis, A.
Barre, A. *See* Van Damme, E. J. M.
Barritt, G. J. *See* Litjens, T.
Barski, O. A. *See* Spite, M.
Bartegi, A. *See* Jardin, I.
Bartels, R. *See* Andrä, J.
Bartlett, M. C. *See* Wang, Y.
Bateman, R. L.
——; Ashworth, J.; Witte, J. F.; Baker, L.-J.; Bhanumoorthy, P.; Timm, D. E.; Hurley, T. D.; Grompe, M.; McClard, R. W.
Slow-onset inhibition of fumarylacetoacetate hydrolase by phosphinate mimics of the tetrahedral intermediate: kinetics, crystal structure and pharmacokinetics, 402:251
Batta, K. *See* Kishore, A. H.
Battchikova, N. *See* Sirpiö, S.
Battey, J. F. *See* Sainz, E.
Batty, I. H.
——; van der Kaay, J.; Gray, A.; Telfer, J. F.; Dixon, M. J.; Downes, C. P.
The control of phosphatidylinositol 3,4-bisphosphate concentrations by activation of the Src homology 2 domain containing inositol polyphosphate 5-phosphatase 2, SHIP2, 407:255
Baverel, G. *See* Martin, G.
Bax, D. V. *See* Lomas, A. C.
Baykov, A. A. *See* Jämsen, J.
Beachy, R. N. *See* Liu, Y.
Bear, C. E. *See* Stratford, F. L. L.
Beard, N. A. *See* Kimura, T.
Beaudoin, J.-D. *See* Lévesque, D.
Beaugrand, J. *See* Fierens, E.
Beaulieu, M.-E. *See* Holleran, B. J.
Beaulieu, N. *See* Johnson, J. E.
Becker, C.-M. *See* Ulrich, M.
Bedard, K. *See* Serrander, L.
Behal, R. H. *See* Flom, G.
Bell, S. E.
——; Shah, C. M.; Gordge, M. P.
Protein disulfide-isomerase mediates delivery of nitric oxide redox derivatives into platelets, 403:283
Bellelli, A. *See* Malerba, F.
Bellemare, A. *See* Doucet, A.
Belogurov, G. A. *See* Jämsen, J.
Ben Amor, N. *See* Jardin, I.
Benesch, J. L. P. *See* Ecroyd, H.
Benfenati, F. *See* Bonanomi, D.
Bennett, A. M. *See* Tiganis, T.
Bennett, B. *See* Kumar, A.
Bennett, M. J. *See* Kerr, I. D.
Bennett, M. R. *See* Kavurma, M. M.
Bentele, C. *See* Brüning, M.
Benyoucef, S.
——; Surinya, K. H.; Hadaschik, D.; Siddle, K.
Characterization of insulin/IGF hybrid receptors: contributions of the insulin receptor L2 and Fn1 domains and the alternatively spliced exon 11 sequence to ligand binding and receptor activation, 403:603
Beraud, M. *See* Bonod-Bidaud, C.
Beresford, N.
——; Patel, S.; Armstrong, J.; Szöor, B.; Fordham-Skelton, A. P.; Tabernero, L.
MptpB, a virulence factor from *Mycobacterium tuberculosis*, exhibits triple-specificity phosphatase activity, 406:13; 406:527 (Correction)
Béress, L. *See* Salceda, E.
Berger, R. *See* van den Berghe, P. V. E.
Berggård, T. *See* Rogstam, A.
Bermúlez-Silva, F. J. *See* Ferrer, B.
Bernert, B. *See* Li, L.
Berrier, C. *See* Park, K.-H.
Bertoldi, M. *See* Cellini, B.
Betakova, T. *See* Ohradanova, A.
Beullens, M. *See* Devogelaere, B.
Beutler, B. *See* Munafó, D. B.
Bezombes, C. *See* Charruyer, A.
Bhanumoorthy, P. *See* Bateman, R. L.
Bhari, N. *See* Baillie, G. S.
Bhatnagar, A. *See* Spite, M.
Bhattacharya, S.
——; Guo, H.; Ray, R. M.; Johnson, L. R.
Basic helix–loop–helix protein E47-mediated p21Waf1/Cip1 gene expression regulates apoptosis of intestinal epithelial cells, 407:243
Bidaux, G. *See* Crépin, A.
Biedendieck, R. *See* Homann, A.
Biffi, A. *See* Fraldi, A.
Bikoff, E. K. *See* Biondi, C. A.
Bilbao, A. *See* Ferrer, B.
Biondi, C. A.
——; Das, D.; Howell, M.; Islam, A.; Bikoff, E. K.; Hill, C. S.; Robertson, E. J.
Mice develop normally in the absence of Smad4 nucleocytoplasmic shuttling, 404:235
Bisaillon, M. *See* Picard-Jean, F.
Biswas, C.
——; Ostrovsky, O.; Makarewich, C. A.; Wanderling, S.; Gidalevitz, T.; Argon, Y.
The peptide-binding activity of GRP94 is regulated by calcium, 405:233
Bizebard, T. *See* Zeller, M.-E.
Bjelke, J. R. *See* Larsen, K. S.
Blackledge, N. P.
——; Carter, E. J.; Evans, J. R.; Lawson, V.; Rowntree, R. K.; Harris, A.
CTCF mediates insulator function at the *CFTR* locus, 408:267
Blanca, G.
——; Delagoutte, E.; Tanguy Le Gac, N.; Johnson, N. P.; Baldacci, G.; Villani, G.
Accessory proteins assist exonuclease-deficient bacteriophage T4 DNA polymerase in replicating past an abasic site, 402:321
Bock, R. *See* Schöttler, M. A.
Böer, U.
——; Eglins, J.; Krause, D.; Schnell, S.; Schöfl, C.; Knepel, W.
Enhancement by lithium of cAMP-induced CRE/CREB-directed gene transcription conferred by TORC on the CREB basic leucine zipper domain, 408:69
Boerke, A. *See* Ono, N.
Boghossian, M. *See* Martin, G.
Bögler, O. *See* DeJournett, R. E.
Bogyo, M.
——; Finding the needles in the haystack: mapping constitutive proteolytic events *in vivo*, 407:e1 (online-only commentary on Timmer, J. C.)
Boland, C. *See* Franklin, E.
Bolger, G. B. *See* Baillie, G. S.
Bollen, M. *See* Devogelaere, B.
Boller, D. *See* Arcaro, A.
Bolstad, J. *See* Hunt, D. J.
Bonanomi, D.
——; Rusconi, L.; Colombo, C. A.; Benfenati, F.; Valtorta, F.
Synaptophysin I selectively specifies the exocytic pathway of synaptobrevin 2/VAMP2, 404:525
Bonewald, L. *See* Xu, X.
Bonivento, D. *See* Federici, L.
Bonod-Bidaud, C.
——; Beraud, M.; Vaganay, E.; Delacoux, F.; Font, B.; Hulmes, D. J. S.; Ruggiero, F.
Enzymatic cleavage specificity of the proα1(V) chain processing analysed by site-directed mutagenesis, 405:299
Booker, G. W. *See* Keyhanfar, M.
Boonsaen, T.
——; Rojvirat, P.; Surinya, K. H.; Wallace, J. C.; Jitrapakdee, S.
Transcriptional regulation of the distal promoter of the rat pyruvate carboxylase gene by hepatocyte nuclear factor 3β/Foxa2 and upstream stimulatory factors in insulinoma cells, 405:359
Borchani, L. *See* Shahbazzadeh, D.
Borlotti, A. *See* Arnaud, N.
Bornemann, S. *See* Just, V. J.

© 2008 Biochemical Society

Borri Voltattorni, C. *See* Cellini, B.
Borsani, G. *See* Manzoni, M.; Zanchetti, G.
Borst, P. *See* Ono, N.
Bortolami, S. *See* Zoccarato, F.
Bossa, F. *See* Malerba, F.
Bouchard, D. *See* Doucet, A.
Boucher, G.
——; Said, B.; Ostler, E. L.; Resmini, M.; Brocklehurst, K.; Gallacher, G.
Evidence that the mechanism of antibody-catalysed hydrolysis of arylcarbamates can be determined by the structure of the immunogen used to elicit the catalytic antibody, 401:721
Boucherez, J. *See* Arnaud, N.
Boudeau, J. *See* Pearce, L. R.
Bougault, C. *See* Dycke, C.
Bougie, I. *See* Picard-Jean, F.
Boulware, M. J. *See* Zhang, D.
Bourbonnais, Y. *See* Doucet, A.
Bowater, L. *See* Just, V. J.
Bowyer, P. W.
——; Gunaratne, R. S.; Grainger, M.; Withers-Martinez, C.; Wickramsinghe, S. R.; Tate, E. W.; Leatherbarrow, R. J.; Brown, K. A.; Holder, A. A.; Smith, D. F.
Molecules incorporating a benzothiazole core scaffold inhibit the N-myristoyltransferase of *Plasmodium falciparum*, 408:173
Bozon, D. *See* Mousson de Camaret, B.
Braga, T.
——; Grujic, M.; Lukinius, A.; Hellman, L.; Åbrink, M.; Pejler, G.
Serglycin proteoglycan is required for secretory granule integrity in mucosal mast cells, 403:49
Bragado, M. J. *See* Cerezo-Guisado, M. I.
Bramham, J. *See* Hnia, K.
Brand, M. D. *See* Amo, T.; Lou, P.-H.
Brandenburg, K. *See* Andrä, J.
Brandt-Bohne, U.
——; Keene, D. R.; White, F. A.; Koch, M.
MEGF9: a novel transmembrane protein with a strong and developmentally regulated expression in the nervous system, 401:447
Brazier, M. W. *See* O'Sullivan, D. B. D.
Brearley, C. A. *See* Caddick, S. E. K.
Brecker, L. *See* Schwarz, A.
Brehm, M. A.
——; Schenk, T. M. H.; Zhou, X.; Fanick, W.; Lin, H.; Windhorst, S.; Nalaskowski, M. M.; Kobras, M.; Shears, S. B.; Mayr, G. W.
Intracellular localization of human Ins(1,3,4,5,6)$P_5$2-kinase, 408:335
Brendza, K. M.
——; Haakenson, W.; Cahoon, R. E.; Hicks, L. M.; Palavalli, L. H.; Chiapelli, B. J.; McLaird, M.; McCarter, J. P.; Williams, D. J.; Hresko, M. C.; Jez, J. M.
Phosphoethanolamine *N*-methyltransferase (PMT-1) catalyses the first reaction of a new pathway for phosphocholine biosynthesis in *Caenorhabditis elegans*, 404:439
Brenowitz, M. *See* Hu, T.
Bresciani, R. *See* Manzoni, M.; Zanchetti, G.
Briat, J.-F. *See* Arnaud, N.
Brijs, K. *See* Fierens, E.
Brisson, J.-R. *See* Westman, E. L.
Brocklehurst, K. *See* Boucher, G.
Brocks, L. *See* Ono, N.
Brodsky, J. L.
——; The protective and destructive roles played by molecular chaperones during ERAD (endoplasmic-reticulum-associated degradation), 404:353
Brookes, S. J. *See* Zou, Y.
Brown, D. R. *See* O'Sullivan, D. B. D.
Brown, J. M.
——; Rudel, L. L.; Yu, L.
NPC1L1 (Niemann–Pick C1-like 1) mediates sterol-specific unidirectional transport of non-esterified cholesterol in McArdle-RH7777 hepatoma cells, 406:273
Brown, K. A. *See* Bowyer, P. W.
Browne, G. J.
——; Fardilha, M.; Oxenham, S. K.; Wu, W.; Helps, N. R.; da Cruz E Silva, O. A. B.; Cohen, P. T. W.; da Cruz E Silva, E. F.
SARP, a new alternatively spliced protein phosphatase 1 and DNA interacting protein, 402:187
Browne, S. *See* Franklin, E.
Bruhn, O.
——; Regenhard, P.; Michalek, M.; Paul, S.; Gelhaus, C.; Jung, S.; Thaller, G.; Podschun, R.; Leippe, M.; Grötzinger, J.; Kalm, E.
A novel horse α-defensin: gene transcription, recombinant expression and characterization of the structure and function, 407:267
Brunk, U. T. *See* Tenopoulou, M.
Brüning, M.
——; Lummer, M.; Bentele, C.; Smolenaars, M. M. W.; Rodenburg, K. W.; Ragg, H.
The Spn4 gene from *Drosophila melanogaster* is a multipurpose defence tool directed against proteases from three different peptidase families, 401:325
Bryantsev, A. L.
——; Kurchashova, S. Yu.; Golyshev, S. A.; Polyakov, V. Yu; Wunderink, H. F.; Kanon, B.; Budagova, K. R.; Kabakov, A. E.; Kampinga, H. H.
Regulation of stress-induced intracellular sorting and chaperone function of Hsp27 (HspB1) in mammalian cells, 407:407
Brzezinska, A. A. *See* Pacquelet, S.
Budagova, K. R. *See* Bryantsev, A. L.
Budatha, M.
——; Meur, G.; Dutta-Gupta, A.
A novel aminopeptidase in the fat body of the moth *Achaea janata* as a receptor for *Bacillus thuringiensis* Cry toxins and its comparison with midgut aminopeptidase, 405:287
Budde, M. *See* van der Luit, A. H.
Bujdoso, R. *See* Thackray, A. M.
Bulleid, N. J. *See* Chakravarthi, S.
Bunkoczi, G. *See* Lukacik, P.
Bunn, H. F. *See* Larade, K.
Bunning, S. *See* Callan, A. C.
Burckhardt-Herold, S. *See* Farrés, J.
Buré, C. *See* Gillard, N.
Burgos, E. *See* Stern, A. L.
Burke, Z. D.
——; Thowfeequ, S.; Peran, M.; Tosh, D.
Stem cells in the adult pancreas and liver, 404:169
Burr, S. *See* Hooks, M. A.
Burrell, M. R. *See* Just, V. J.
Burrola, B. *See* Luo, R.
Butland, G. *See* Thorndycroft, F. H.
Butler, C. S. *See* Dridge, E. J.
Byers, H. *See* Schuster, B.

Caan, W. *See* van der Luit, A. H.
Caccia, D. *See* Iafelice, R.
Caddick, S. E. K.
——; Harrison, C. J.; Stavridou, I.; Johnson, S.; Brearley, C. A.
A lysine accumulation phenotype of *Sclpk2Δ* mutant yeast is rescued by *Solanum tuberosum* inositol phosphate multikinase, 403:381
Cadenas, E. *See* Iñarrea, P.
Cadenas, S. *See* Rodríguez-Juárez, F.
Cadene, M. *See* Gillard, N.
Cahoon, R. E. *See* Brendza, K. M.
Cai, J. *See* Wang, H.
Cai, W.-J. *See* Fang, W.-K.
Cai, Y. *See* Jiang, S.
Caimi, L. *See* Zanchetti, G.
Cain, K. *See* Twiddy, D.
Calaminus, S. D. J. *See* Pearce, A. C.
Callan, A. C.
——; Bunning, S.; Jones, O. T.; High, S.; Swanton, E.
Biosynthesis of the dystonia-associated AAA$^+$ ATPase torsinA at the endoplasmic reticulum, 401:607
Camakaris, J. *See* Hardman, B.; Hung, Y. H.
Campa, C. *See* Massa, C.
Campbell, C. *See* De, A.
Campbell, D. G. *See* Jaleel, M.; McCoy, C. E.
Canaan, S. *See* Côtes, K.
Cantel, S. *See* Hnia, K.
Cao, X. *See* Yan, D.
Caragounis, A.
——; Du, T.; Filiz, G.; Laughton, K. M.; Volitakis, I.; Sharples, R. A.; Cherny, R. A.; Masters, C. L.; Drew, S. C.; Hill, A. F.; Li, Q.-X.; Crouch, P. J.; Barnham, K. J.; White, A. R.
Differential modulation of Alzheimer's disease amyloid β-peptide accumulation by diverse classes of metal ligands, 407:435
Carastro, L. M. *See* Joshi, B.
Cardoso, I.
——; Almeida, M. R.; Ferreira, N.; Arsequell, G.; Valencia, G.; Saraiva, M. J.
Comparative *in vitro* and *ex vivo* activities of selected inhibitors of transthyretin aggregation: relevance in drug design, 408:131
Carey, B. W.
——; Kim, D. Y.; Kovacs, D. M.
Presenilin/γ-secretase and α-secretase-like peptidases cleave human MHC Class I proteins, 401:121
Carling, D. *See* Sanders, M. J.
Carlson, B. A. *See* Xu, X.-M.
Carmona-Cuenca, I. *See* Murillo, M. M.
Caron, S. *See* Murakami, T.
Carrière, F. *See* Côtes, K.
Carruthers, L. M.
——; Marton, L. J.; Peterson, C. L.
Polyamine analogues: potent inducers of nucleosomal array oligomerization and inhibitors of yeast cell growth, 405:541
Carter, E. J. *See* Blackledge, N. P.
Cartier, L. *See* Serrander, L.
Cartron, J. P. *See* Collec, E.
Carver, J. A. *See* Ecroyd, H.
Casals, C. *See* Sánchez-Barbero, F.
Casarotto, M. G. *See* Bannister, M. L.
Casella, L. *See* Nicolis, S.
Cassard-Doulcier, A.-M. *See* Emre, Y.
Castro, J. *See* Litjens, T.
Castro, L. M. *See* Machado, M. F. M.
Cater, M. A.
——; La Fontaine, S.; Mercer, J. F. B.
Copper binding to the N-terminal

© 2008 Biochemical Society

metal-binding sites or the CPC motif is not essential for copper-induced trafficking of the human Wilson protein (ATP7B), 401:143
Catteeuw, D. *See* Lavens, D.
Catz, S. D. *See* Munafó, D. B.; Pacquelet, S.
Cavallini, L. *See* Zoccarato, F.
Cavenagh, M. M. *See* Sainz, E.
Cayla, X. *See* Jan, G.
Cazzulo, J. J. *See* Niemirowicz, G.; Stern, A. L.
Cellier, F. *See* Arnaud, N.
Cellini, B.
——; Bertoldi, M.; Montioli, R.; Paiardini, A.; Borri Voltattorni, C.
Human wild-type alanine:glyoxylate aminotransferase and its naturally occurring G82E variant: functional properties and physiological implications, 408:39
Cerantola, V.
——; Vionnet, C.; Aebischer, O. F.; Jenny, T.; Knudsen, J.; Conzelmann, A.
Yeast sphingolipids do not need to contain very long chain fatty acids, 401:205
Cerezo-Guisado, M. I.
——; García-Román, N.; García-Marín, L. J.; Álvarez-Barrientos, A.; Bragado, M. J.; Lorenzo, M. J.
Lovastatin inhibits the extracellular-signal-regulated kinase pathway in immortalized rat brain neuroblasts, 401:175
Cermakian, N. *See* Dardente, H.
Cervoni, L. *See* Mocan, I.
Chahinian, H. *See* Côtes, K.
Chaim, O. M. *See* da Silveira, R. B.
Chakravarthi, S.
——; Jessop, C. E.; Willer, M.; Stirling, C. J.; Bulleid, N. J.
Intracellular catalysis of disulfide bond formation by the human sulfhydryl oxidase, QSOX1, 404:403
Chakravarty, K. *See* Lopez, A. B.
Chan, C. W.
——; Lee, Y.-B.; Uney, J.; Flynn, A.; Tobias, J. H.; Norman, M.
A novel member of the SAF (scaffold attachment factor)-box protein family inhibits gene expression and induces apoptosis, 407:355
Chan, S. C.
——; Lin, S.-C.; Li, P.
Regulation of Cidea protein stability by the ubiquitin-mediated proteasomal degradation pathway, 408:259
Chan, W.-H.
——; Citrinin induces apoptosis via a mitochondria-dependent pathway and inhibition of survival signals in embryonic stem cells, and causes developmental injury in blastocysts, 404:317
Chandan, P. *See* Shephard, E. A.
Chang, B. *See* Li, C.; Yu, S.
Chang, H.-H. *See* Ishii, S.
Chang, H.-I. *See* Park, Y.-S.
Chang, J.-Y. *See* Graidist, P.
Chang, L. W. *See* Chao, M.-R.
Chang, M. D.-T. *See* Liu, Y.-N.; Wan, C.-F.
Chang, S.-F. *See* Lu, S.-C.
Chang, Y.-H. *See* Timmer, J. C.
Chao, M.-R.
——; Wang, C.-J.; Yen, C.-C.; Yang, H.-H.; Lu, Y.-C.; Chang, L. W.; Hu, C.-W.
Simultaneous determination of N^7-alkylguanines in DNA by isotope-dilution LC-tandem MS coupled with automated solid-phase extraction and it sapplication to a small fish model, 402:483
Chapel, A. *See* Jensen, A. G.
Charest, P. G.
——; Firtel, R. A.
Big roles for small GTPases in the control of directed cell movement, 401:377
Charruyer, A.
——; Jean, C.; Colomba, A.; Jaffrézou, J.-P.; Quillet-Mary, A.; Laurent, G.; Bezombes, C.
PKCζ protects against UV-C-induced apoptosis by inhibiting acid sphingomyelinase-dependent ceramide production, 405:77
Chartier, F. J. M.
——; Couture, M.
Interactions between substrates and the haem-bound nitric oxide of ferric and ferrous bacterial nitric oxide synthases, 401:235
Chassagne, M. *See* Mousson de Camaret, B.
Chaussade, C.
——; Rewcastle, G. W.; Kendall, J. D.; Denny, W. A.; Cho, K.; Grønning, L. M.; Chong, M. L.; Anagnostou, S. H.; Jackson, S. P.; Daniele, N.; Shepherd, P. R.
Evidence for functional redundancy of class IA PI3K isoforms in insulin signalling, 404:449
Chavez, J. A. *See* Roach, W. G.
Chazalette, D. *See* Hnia, K.
Chellappan, S. P. *See* Joshi, B.
Chemali, M. *See* Jensen, A. G.
Chen, C.-L. *See* Lu, S.-C.
Chen, C.-T. *See* Wan, C.-F.
Chen, H.-L. *See* Lu, S.-C.
Chen, Hong *See* Pan, Y.-X.
Chen, Hui *See* Ou, X.
Chen, J. *See* Lu, D.; Song, Y.; Xiao, L.
Chen, K. *See* Cong, L.; Hunt, D. J.
Chen, S. *See* Geraghty, K. M.
Chen, S. R. W. *See* Hunt, D. J.
Chen, W. *See* Hunt, D. J.
Chen, W.-H. *See* Wan, C.-F.
Chen, Y. *See* Wang, H.
Chen, Y.-H. *See* Huang, J.-H.
Chen, Z. *See* Xu, X.
Chen, Z.-H.
——; Nimmo, G. A.; Jenkins, G. I.; Nimmo, H. G.
BHLH32 modulates several biochemical and morphological processes that respond to P_i starvation in *Arabidopsis*, 405:191
Cheong, J. H. *See* Park, M. J.
Chern, Y. *See* Wang, S.-C.
Cherny, R. A. *See* Caragounis, A.
Cheung, J. C. *See* Stratford, F. L. L.
Chew, B. S.
——; Lehming, N.
TFIIB/*SUA7*(E202G) is an allele-specific suppressor of *TBP1*(E186D), 406:265
Chi, N.-W. *See* Yeh, T.-Y. J.
Chi, Z.-Q. *See* Lin, X.
Chiang, C.-M. *See* Lopez, A. B.
Chiapelli, B. J. *See* Brendza, K. M.
Chin, E. C. *See* Sheldrick, E. L. R.
Chiu, C. *See* Tang, Z.
Chiu, Y.-T. *See* Wang, S.-C.
Cho, J.-H. *See* Park, Y.-S.
Cho, K. *See* Chaussade, C.
Choi, S. Y. *See* Jung, S. H.
Chong, M. L. *See* Chaussade, C.
Chornomorets, M. *See* Katanaev, V. L.
Chou, W.-I. *See* Liu, Y.-N.
Chou, Y.-Y. *See* Lu, S.-C.
Chowdary, T. K.
——; Raman, B.; Ramakrishna, T.; Rao, Ch. M.
Interaction of mammalian Hsp22 with lipid membranes, 401:437
Christensen, L. *See* Larsen, K. S.
Chroni, A. *See* Koukos, G.
Chuang, C.-Y. *See* Lu, S.-C.
Ciaccio, C. *See* Nicolis, S.
Cicortas Gunnarsson, L.
——; Montanier, C.; Tunnicliffe, R. B.; Williamson, M. P.; Gilbert, H. J.; Nordberg Karlsson, E.; Ohlin, M.
Novel xylan-binding properties of an engineered family 4 carbohydrate-binding module, 406:209
Cieśla, J.
——; Jagielska, E.; Skopiński, T.; Dąbrowska, M.; Maley, F.; Rode, W.
Binding and repression of translation of the cognate mRNA by *Trichinella spiralis* thymidylate synthase differ from the corresponding interactions of the human enzyme, 402:601 (Retraction)
Clark, R. B. *See* DeJournett, R. E.
Clarke, D. M. *See* Wang, Y.
Clarke, S. D. *See* Teran-Garcia, M.
Clarke, T. A.
——; Cole, J. A.; Richardson, D. J.; Hemmings, A. M.
The crystal structure of the pentahaem *c*-type cytochrome NrfB and characterization of its solution-state interaction with the pentahaem nitrite reductase NrfA, 406:19
Clausen, M. H. *See* Massa, C.
Clerc-Renaud, P. *See* Mousson de Camaret, B.
Cochet, C. *See* Laudet, B.
Cohen, L. *See* Moran, Y.
Cohen, P. *See* Bain, J., Sapkota, G. P., Windheim, M.
Cohen, P. T. W. *See* Browne, G. J.
Cole, D. G. *See* Flom, G.
Cole, J. A. *See* Clarke, T. A.
Coleman, T. A. *See* Ishigami, S.
Coletta, M. *See* Monaco, S.
Colin, S. *See* Guibet, M.
Colin, Y. *See* Collec, E.
Collec, E.
——; El Nemer, W.; Gauthier, E.; Gane, P.; Lecomte, M.-C.; Dhermy, D.; Cartron, J. P.; Colin, Y.; Le Van Kim, C.; Rahuel, C.
Ubc9 interacts with Lu/BCAM adhesion glycoproteins and regulates their stability at the membrane of polarized MDCK cells, 402:311
Colomba, A. *See* Charruyer, A.
Colombi, P. *See* Manzoni, M.; Zanchetti, G.
Colombo, C. A. *See* Bonanomi, D.
Comini, M. A. *See* Schlecker, T.
——; Krauth-Siegel, R. L.; Flohé, L.
Depletion of the thioredoxin homologue tryparedoxin impairs antioxidative defence in African trypanosomes, 402:43
Cong, L.
——; Chen, K.; Li, J.; Gao, P.; Li, Q.; Mi, S.; Wu, X.; Zhao, A. Z.
Regulation of adiponectin and leptin secretion and expression by insulin through a PI3K-PDE3B dependent mechanism in rat primary adipocytes, 403:519
Conigrave, A. D. *See* Lee, H. J.
Conjard, A. *See* Martin, G.
Contestabile, R. *See* Malerba, F.
Conzelmann, A. *See* Cerantola, V.
Cook, N. *See* Fraser, S. A.

© 2008 Biochemical Society

Cook, S. J.
——; Morley, S. J.
Nutrient-responsive mTOR signalling grows on *Sterile* ground, 403:e1 (online-only commentary on Findlay, G. M.)
Cooper, C. E. *See* Silaghi-Dumitrescu, R.
Copin, M.-C. *See* Piessen, G.
Coppens, I. *See* Pisciotta, J. M.
Corkey, B. E. *See* Heart, E.
Corkey, R. F. *See* Heart, E.
Cornell, R. B. *See* Johnson, J. E.
Cosma, M. P. *See* Fraldi, A.
Cossette, C. *See* Erlemann, K.-R.
Costa Leite, T.
——; Da Silva, D.; Guimarães Coelho, R.; Zancan, P.; Sola-Penna, M.
Lactate favours the dissociation of skeletal muscle 6-phosphofructo-1-kinase tetramers down-regulating the enzyme and muscle glycolysis, 408:123
Costantini, C.
——; Ko, M. H.; Jonas, M. C.; Puglielli, L.
A reversible form of lysine acetylation in the ER and Golgi lumen controls the molecular stabilization of BACE1, 407:383
Costantino, M. E. *See* Liu, Y.
Côtes, K.
——; Dhouib, R.; Douchet, I.; Chahinian, H.; de Caro, A.; Carrière, F.; Canaan, S.
Characterization of an exported monoglyceride lipase from *Mycobacterium tuberculosis* possibly involved in the metabolism of host cell membrane lipids, 408:417
Coughlin, P. B. *See* Paterson, M. A.
Courtin, C. M. *See* Fierens, E.
Couture, M. *See* Chartier, F. J. M.
Cox, D. *See* Wahab, N.
Cozzone, D. *See* Fröjdö, S.
Crépin, A.
——; Bidaux, G.; Vanden-Abeele, F.; Dewailly, E.; Goffin, V.; Prevarskaya, N.; Slomianny, C.
Prolactin stimulates prostate cell proliferation by increasing endoplasmic reticulum content due to SERCA 2b over-expression, 401:49
Crichton, P. G.
——; Affourtit, C.; Moore, A. L.
Identification of a mitochondrial alcohol dehydrogenase in *Schizosaccharomyces pombe*: new insights into energy metabolism, 401:459
Criscuolo, F. *See* Emre, Y.
Cristoni, S. *See* Iafelice, R.
Crouch, M. F. *See* Lee, H. J.
Crouch, P. J. *See* Caragounis, A.
Croucher, D. R.
——; Saunders, D. N.; Stillfried, G. E.; Ranson, M.
A structural basis for differential cell signalling by PAI-1 and PAI-2 in breast cancer cells, 408:203
Crouzet, M. *See* Mocan, I.
Cruchaga, C.
——; Anso, E.; Font, M.; Martino, V. S.; Rouzaut, A.; Martinez-Irujo, J. J.
A new strategy to inhibit the excision reaction catalysed by HIV-1 reverse transcriptase: compounds that compete with the template–primer, 405:165
Csanadi, A. *See* Zeller, M.-E.
Cui, Z. *See* Li, N.
Culerrier, R. *See* Van Damme, E. J. M.
Cullis, P. R. *See* de Jonge, J.
Culverston, E. L. *See* Lee, H. J.
Cummings, L. *See* Sapkota, G. P.
Curthoys, N. P. *See* Robinson, M. M.
Czjzek, M. *See* Sonan, G. K.

Dabernat-Arnaud, S. *See* Mocan, I.
Dąbrowska, M. *See* Cieśla, J.
da Cruz e Silva, E. F. *See* Browne, G. J.
da Cruz e Silva, O. A. B. *See* Browne, G. J.
Dai, S. *See* Liu, Y.
Dalio, F. M. *See* Machado, M. F. M.
Daltrop, O. *See* Metcalfe, C. L.
Damblon, C. *See* Badarau, A.
Daniel, R. M. *See* Peterson, M. E.
Daniele, N. *See* Chaussade, C.
Danson, M. J. *See* Peterson, M. E.
Dardente, H.
——; Fortier, E. E.; Martineau, V.; Cermakian, N.
Cryptochromes impair phosphorylation of transcriptional activators in the clock: a general mechanism for circadian repression, 402:525
Darley-Usmar, V. M. *See* Landar, A.
Darling, D. S. *See* Liu, Y.
Darteil, R. *See* Murakami, T.
Das, C. *See* Kishore, A. H.
Das, D. *See* Biondi, C. A.
——; Tapryal, N.; Goswami, S. K.; Fox, P. L.; Mukhopadhyay, C. K.
Regulation of ceruloplasmin in human hepatic cells by redox active copper: identification of a novel AP-1 site in the ceruloplasmin gene, 402:135
Da Silva, D. *See* Costa Leite, T.
da Silveira, R. B.
——; Wille, A. C. M.; Chaim, O. M.; Appel, M. H.; Silva, D. T.; Franco, C. R. C.; Toma, L.; Mangili, O. C.; Gremski, W.; Dietrich, C. P.; Nader, H. B.; Veiga, S. S.
Identification, cloning, expression and functional characterization of an astacin-like metalloprotease toxin from *Loxosceles intermedia* (brown spider) venom, 406:355
Dass, B. *See* Monarez, R. R.
David, V. *See* Jan, G.
Davidkova, M. *See* Gillard, N.
Davidson, L. *See* Maccario, H.
Davies, M. J. *See* Rees, M. D.
De, A.
——; Campbell, C.
A novel interaction between DNA ligase III and DNA polymerase γ plays an essential role in mitochondrial DNA stability, 402:175
Deak, M. *See* Jaleel, M.; McCoy, C. E.; Pearce, L. R.
Dean, D. C. *See* Liu, Y.
de Caro, A. *See* Côtes, K.
De-Castro Arce, J. *See* Nafz, J.
DeCook, C. *See* Joshi, B.
Deeney, J. T. *See* Heart, E.
De Falco, M. *See* De Felice, M.
DeFea, K. A. *See* Wang, P.
De Felice, M.
——; Aria, V.; Esposito, L.; De Falco, M.; Pucci, B.; Rossi, M.; Pisani, F. M.
A novel DNA helicase with strand-annealing activity from the crenarchaeon *Sulfolobus solfataricus*, 408:87
Degerman, E. *See* Ahmad, F.
de Haas, M. *See* Ono, N.
de Hemptinne, V.
——; Rondas, D.; Vandekerckhove, J.; Vancompernolle, K.
Tumour necrosis factor induces phosphorylation primarily of the nitric-oxide-responsive form of glyoxalase I, 407:121
Dejam, A. *See* Larade, K.
de Jonge, J.
——; Leenhouts, J. M.; Holtrop, M.; Schoen, P.; Scherrer, P.; Cullis, P. R.; Wilschut, J.; Huckriede, A.
Cellular gene transfer mediated by influenza virosomes with encapsulated plasmid DNA, 405:41
DeJournett, R. E.
——; Kobayashi, R.; Pan, S.; Wu, C.; Etkin, L. D.; Clark, R. B.; Bögler, O.; Kuang, J.
Phosphorylation of the proline-rich domain of Xp95 modulates Xp95 interaction with partner proteins, 401:521
Delacoux, F. *See* Bonod-Bidaud, C.
Delagoutte, E. *See* Blanca, G.
Delannoy, P. *See* Teintenier-Lelièvre, M.
Delattre, O. *See* Arcaro, A.
del Castillo, G. *See* Murillo, M. M.
Delcour, J. A. *See* Fierens, E.
Delorme, V. *See* Jan, G.
Del Peso, L. *See* Villar, D.
Demmer, J. *See* Watson, R. P.
Denault, J.-B. *See* Timmer, J. C.
——; Eckelman, B. P.; Shin, H.; Pop, C.; Salvesen, G. S.
Caspase 3 attenuates XIAP (X-linked inhibitor of apoptosis protein)-mediated inhibition of caspase 9, 405:11 (*See* Twiddy, D. for online-only commentary)
Denny, W. A. *See* Chaussade, C.
Derecka, K. *See* Sheldrick, E. L. R.
de Rooij, D. G. *See* Ono, N.
Derua, R. *See* Devogelaere, B.
Deshiere, A. *See* Laudet, B.
Desiderio, D. M. *See* Sheth, P.
De Smedt, H. *See* Devogelaere, B.
Detaille, D. *See* Guigas, B.
Devogelaere, B.
——; Beullens, M.; Sammels, E.; Derua, R.; Waelkens, E.; Van Lint, J.; Parys, J. B.; Missiaen, L.; Bollen, M.; De Smedt, H.
Protein phosphatase-1 is a novel regulator of the interaction between IRBIT and the inositol 1,4,5-trisphosphate receptor, 407:303
De Waard, M. *See* Altafaj, X.; Shahbazzadeh, D.
Dewailly, E. *See* Crépin, A.
DeWille, J. W. *See* Zhou, S.
Dhermy, D. *See* Collec, E.
Dhouib, R. *See* Côtes, K.
Díaz Añel, A. M.
——; Phospholipase C β3 is a key component in the G$\beta\gamma$/PKCη/PKD-mediated regulation of *trans*-Golgi network to plasma membrane transport, 406:157
Dickman, M. J. *See* Jones, E. V.
Dideberg, O. *See* Laudet, B.
Diekmann, N. *See* Heinemann, I. U.
Dietrich, C. P. *See* da Silveira, R. B.
Dietz, K.-J. *See* Laxa, M.
Díez-Guerra, F. J. *See* Domínguez-González, I.
Di Ilio, C. *See* Federici, L.
Dijkstra, B. W. *See* Wolterink-van Loo, S.
Di Matteo, A. *See* Federici, L.
Diment, A. *See* Hnia, K.
Dinauer, M. C. *See* Nakano, Y.
Ding, J. *See* Li, S.
Ding, Z. *See* Johnson, J. E.
Dion, A. S. *See* Myers, J. C.
Di Pierro, D. *See* Monaco, S.

© 2008 Biochemical Society

Dirksen, R. T. *See* Kimura, T.
Dixit, S. S.
——; Sleat, D. E.; Stock, A. M.; Lobel, P.
Do mammalian NPC1 and NPC2 play a role in intestinal cholesterol absorption?, 408:1 (*See* Liscum, L. for online-only commentary)
Dixon, M. J. *See* Batty, I. H.
Dixon, M. W. A. *See* Jackson, K. E.
Doan, N.
——; Gettins, P. G. W.
Human α_2-macroglobulin is composed of multiple domains, as predicted by homology with complement component C3, 407:23
Docampo, R. *See* Fang, J.
Doepfner, K. T. *See* Arcaro, A.
Dohi, T. *See* Sogawa, C.
Dölle, C. *See* Pollak, N.
Domínguez-González, I.
——; Vázquez-Cuesta, S. N.; Algaba, A.; Díez-Guerra, F. J.
Neurogranin binds to phosphatidic acid and associates to cellular membranes, 404:31
Dong, B.
——; Zhao, F.-Q.
Involvement of the ubiquitous Oct-1 transcription factor in hormonal induction of β-casein gene expression, 401:57
Dormer, R. L. *See* Pereira, M. M. C.
Dorval, V.
——; Mazzella, M. J.; Mathews, P. M.; Hay, R. T.; Fraser, P. E.
Modulation of Aβ generation by small ubiquitin-like modifiers does not require conjugation to target proteins, 404:309
Doucet, A.
——; Bouchard, D.; Janelle, M. F.; Bellemare, A.; Gagné, S.; Tremblay, G. M.; Bourbonnais, Y.
Characterization of human pre-elafin mutants: full antipeptidase activity is essential to preserve lung tissue integrity in experimental emphysema, 405:455
Douchet, I. *See* Côtes, K.
Doulias, P.-T. *See* Tenopoulou, M.
Downes, C. P. *See* Batty, I. H.; Maccario, H.
Doyle, D. A. *See* Soundararajan, M.
Dreesen, T. D. *See* Teran-Garcia, M.
Drew, S. C. *See* Caragounis, A.
Dridge, E. J.
——; Watts, C. A.; Jepson, B. J. N.; Line, K.; Santini, J. M.; Richardson, D. J.; Butler, C. S.
Investigation of the redox centres of periplasmic selenate reductase from *Thauera selenatis* by EPR spectroscopy, 408:19
Du, T. *See* Caragounis, A.
Ducourouble, M.-P. *See* Piessen, G.
Dudeja, P. K. *See* Pearse, I.
Duez, C. *See* Sonan, G. K.
Dufe, V. T.
——; Ingner, D.; Heby, O.; Khomutov, A. R.; Persson, L.; Al-Karadaghi, S.
A structural insight into the inhibition of human and *Leishmania donovani* ornithine decarboxylases by 1-amino-oxy-3-aminopropane, 405:261
Duhem, C. *See* Murakami, T.
Duka, A. *See* Koukos, G.
Dulery, V. *See* Laudet, B.
Dulhunty, A. F. *See* Bannister, M. L.; Kimura, T.
Dummitt, B. *See* Timmer, J. C.
Dumy, P. *See* Laudet, B.
Dunlop, A. *See* Baillie, G. S.
Dunne, A. *See* Franklin, E.
Dunoyer-Geindre, S. *See* Fish, R. J.
Duonor-Cérutti, M. *See* Teintenier-Lelièvre, M.
Durozard, D. *See* Martin, G.
Dutta-Gupta, A. *See* Budatha, M.
Dycke, C.
——; Bougault, C.; Gaillard, J.; Andrieu, J.-P.; Pantopoulos, K.; Moulis, J.-M.
Human iron regulatory protein 2 is easily cleaved in its specific domain: consequences for the haem binding properties of the protein, 408:429
Dyer, J. M. *See* Henderson, M. P. A.
Dzbek, J.
——; Korzeniewski, B.
Control over action potential, calcium peak and average fluxes in the cyclic quasi-steady-state ion transport system in cardiac myocytes: *in silico* studies, 404:227

Ecke, D. *See* Zylberg, J.
Eckelman, B. P. *See* Denault, J.-B.
Ecroyd, H.
——; Meehan, S.; Horwitz, J.; Aquilina, J. A.; Benesch, J. L. P.; Robinson, C. V.; Macphee, C. E.; Carver, J. A.
Mimicking phosphorylation of αB-crystallin affects its chaperone activity, 401:129
Edelman, E. R. *See* Tzafriri, A. R.
Edinger, A. L.
——; Controlling cell growth and survival through regulated nutrient transporter expression, 406:1
Edwards, M. *See* Shephard, E. A.
Egea, V. *See* Ries, C.
Eggeling, C. *See* Stiel, A. C.
Eglins, J. *See* Böer, U.
Ehrismann, D.
——; Flashman, E.; Genn, D. N.; Mathioudakis, N.; Hewitson, K. S.; Ratcliffe, P. J.; Schofield, C. J.
Studies on the activity of the hypoxia-inducible-factor hydroxylases using an oxygen consumption assay, 401:227
Eisenthal, R. *See* Peterson, M. E.
El-Andaloussi, S.
——; Järver, P.; Johansson, H. J.; Langel, Ü.
Cargo-dependent cytotoxicity and delivery efficacy of cell-penetrating peptides: a comparative study, 407:285
El Ayeb, M. *See* Shahbazzadeh, D.
Eley, H. L.
——; Russell, S. T.; Tisdale, M. J.
Effect of branched-chain amino acids on muscle atrophy in cancer cachexia, 407:113
Elkins, J. M. *See* Soundararajan, M.
Elliot, G. *See* Franklin, E.
Elliott, M. *See* Bain, J.
Ellis, B. A. *See* Munafó, D. B.; Pacquelet, S.
El Nemer, W. *See* Collec, E.
Elson, J. L.
——; Turnbull, D. M.; Taylor, R. W.
Testing the adaptive selection of human mtDNA haplogroups: an experimental bioenergetics approach, 404:e3 (online-only commentary on Amo, T.)
Emek, S. C. *See* Albertsson, P.-A.; Albertsson, P.-Å.
Emre, Y.
——; Hurtaud, C.; Nübel, T.; Criscuolo, F.; Ricquier, D.; Cassard-Doulcier, A.-M.
Mitochondria contribute to LPS-induced MAPK activation via uncoupling protein UCP2 in macrophages, 402:271
Enoksson, M. *See* Timmer, J. C.
Enz, R. *See* Ulrich, M.
Erlanson-Albertsson, C. *See* Albertsson, P.-A.; Albertsson, P.-Å.
Erlemann, K.-R.
——; Cossette, C.; Grant, G. E.; Lee, G.-J.; Patel, P.; Rokach, J.; Powell, W. S.
Regulation of 5-hydroxyeicosanoid dehydrogenase activity in monocytic cells, 403:157
Eroshkin, A. *See* Timmer, J. C.
Escargueil, A. E.
——; Larsen, A. K.
Mitosis-specific MPM-2 phosphorylation of DNA topoisomerase IIα is regulated directly by protein phosphatase 2A, 403:235 (*See* Poon, R. Y. C. for online-only commentary)
Escher, E. *See* Holleran, B. J.
Esposito, L. *See* De Felice, M.
Estévez, R. *See* Macías, M. J.
Etkin, L. D. *See* DeJournett, R. E.
Evans, J. R. *See* Blackledge, N. P.
Eyckerman, S. *See* Lavens, D.

Fabregat, I. *See* Murillo, M. M.
Faiola, F.
——; Wu, Y.-T.; Pan, S.; Zhang, K.; Farina, A.; Martinez, E.
Max is acetylated by p300 at several nuclear localization residues, 403:397
Fan, J.-Q. *See* Ishii, S.
Fang, F. *See* Li, N.
Fang, J.
——; Rohloff, P.; Miranda, K.; Docampo, R.
Ablation of a small transmembrane protein of *Trypanosoma brucei* (TbVTC1) involved in the synthesis of polyphosphate alters acidocalcisome biogenesis and function, and leads to a cytokinesis defect, 407:161
Fang, W.-K.
——; Xu, L.-Y.; Lu, X.-F.; Liao, L.-D.; Cai, W.-J.; Shen, Z.-Y.; Li, E.-M.
A novel alternative spliced variant of neutrophil gelatinase-associated lipocalin receptor in oesophageal carcinoma cells, 403:297
Fang, X. *See* Song, Y.
Fanick, W. *See* Brehm, M. A.
Fanning, E. *See* Taneja, P.
Fardilha, M. *See* Browne, G. J.
Færgeman, N. J. *See* Feddersen, S.
Farina, A. *See* Faiola, F.
Farrés, J.
——; Burckhardt-Herold, S.; Scherrer, J.; Frey, A. D.; Kallio, P. T.
Analysis of the contribution of the globin and reductase domains to the ligand-binding properties of bacterial haemoglobins, 407:15
Fasciglione, G. F. *See* Monaco, S.
Favaloro, B. *See* Federici, L.
Feddersen, S.
——; Neergaard, T. B. F.; Knudsen, J.; Fargeman, N. J.
Transcriptional regulation of phospholipid biosynthesis is linked to fatty acid metabolism by an acyl-CoA binding protein dependent mechanism in *Saccharomyces cerevisiae*, 407:219
Federici, L.
——; Masulli, M.; Bonivento, D.; Di Matteo, A.; Gianni, S.; Favaloro, B.; Di Ilio, C.; Allocati, N.

© 2008 Biochemical Society

Role of Ser[11] in the stabilization of the structure of *Ochrobactrum anthropi*glutathione transferase, 403:267
Fehrentz, J.-A. *See* Hnia, K.
Fehrer, C. *See* Reitinger, S.
Feingold, K. R. *See* Van, Q.
Feng, W. *See* Shahbazzadeh, D.
Ferguson, S. J. *See* Metcalfe, C. L.
Fernández, M. *See* Murillo, M. M.
Ferraris, D. V. *See* Robinson, M. M.
Ferreira, N. *See* Cardoso, I.
Ferrer, B.
——; Bermúlez-Silva, F. J.; Bilbao, A.; Alvarez-Jaimes, L.; Sanchez-Vera, I.; Giuffrida, A.; Serrano, A.; Baixeras, E.; Khaturia, S.; Navarro, M.; Parsons, L. H.; Piomelli, D.; Rodríguez de Fonseca, F.
Regulation of brain anandamide by acute administration of ethanol, 404:97
Ferrier, B. *See* Martin, G.
Ferro, E. S. *See* Machado, M. F. M.
Field, R. A. *See* Westman, E. L.
Fierens, E.
——; Rombouts, S.; Gebruers, K.; Goesaert, H.; Brijs, K.; Beaugrand, J.; Volckaert, G.; Van Campenhout, S.; Proost, P.; Courtin, C. M.; Delcour, J. A.
TLXI, a novel type of xylanase inhibitor from wheat (*Triticum aestivum*) belonging to the thaumatin family, 403:583
Figg, N. *See* Kavurma, M. M.
Filhol, O. *See* Laudet, B.
Filiz, G. *See* Caragounis, A.
Findlay, G. M.
——; Yan, L.; Procter, J.; Mieulet, V.; Lamb, R. F.
A MAP4 kinase related to *Ste20* is a nutrient-sensitive regulator of mTOR signalling, 403:13 (*See* Cook, S. J. for online-only commentary)
Finne, J. *See* Jakobsson, E.
Fiore-Heriche, C. S. *See* Vosper, J. M. D.
Firtel, R. A. *See* Charest, P. G.
Fischer, A. *See* Barbat, C.
Fischer, B. *See* Arcaro, A.; Zylberg, J.
Fish, R. J.
——; Yang, H.; Viglino, C.; Schorer, R.; Dunoyer-Geindre, S.; Kruithof, E. K. O.
Fluvastatin inhibits regulated secretion of endothelial cell von Willebrand factor in response to diverse secretagogues, 405:597
Fitzpatrick, T. B.
——; Amrhein, N.; Kappes, B.; Macheroux, P.; Tews, I.; Raschle, T.
Two independent routes of *de novo* vitamin B_6 biosynthesis: not that different after all, 407:1
Fizames, C. *See* Arnaud, N.
Flashman, E. *See* Ehrismann, D.
——; Watkins, H.; Redwood, C.
Localization of the binding site of the C-terminal domain of cardiac myosin-binding protein-C on the myosin rod, 401:97
Fleig, V. *See* Nafz, J.
Fliegel, L. *See* Slepkov, E. R.
Flint, A. P. F. *See* Sheldrick, E. L. R.
Flohé, L. *See* Comini, M. A.
Flom, G.
——; Behal, R. H.; Rosen, L.; Cole, D. G.; Johnson, J. L.
Definition of the minimal fragments of Sti1 required for dimerization, interaction with Hsp70 and Hsp90 and *in vivo* functions, 404:159
Flores, A. *See* Huang, J.
Florian, S. *See* Teubner, W.
Flügel, C. *See* Schöttler, M. A.
Flynn, A. *See* Chan, C. W.
Folmer, D. E. *See* van den Berghe, P. V. E.
Fölsch, U. R. *See* Arlt, A.
Font, B. *See* Bonod-Bidaud, C.
Font, M. *See* Cruchaga, C.
Forbes, B. E. *See* Keyhanfar, M.
Fordham-Skelton, A. P. *See* Beresford, N.
Foretz, M. *See* Guigas, B.
Fórró, L. *See* Serrander, L.
Forssmann, W.-G. *See* Salceda, E.
Fortier, E. E. *See* Dardente, H.
Fortpied, J.
——; Gemayel, R.; Vertommen, D.; Van Schaftingen, E.
Identification of protein-ribulosamine-5-phosphatase as human low-molecular-mass protein tyrosine phosphatase-A, 406:139
Fox, P. L. *See* Das, D.
Fraldi, A.
——; Biffi, A.; Lombardi, A.; Visigalli, I.; Pepe, S.; Settembre, C.; Nusco, E.; Auricchio, A.; Naldini, L.; Ballabio, A.; Cosma, M. P.
SUMF1 enhances sulfatase activities *in vivo* in five sulfatase deficiencies, 403:305
France, J. *See* Altafaj, X.
Franco, C. R. C. *See* da Silveira, R. B.
Frank, S. *See* Marsche, G.
Franklin, E.
——; Browne, S.; Hayes, J.; Boland, C.; Dunne, A.; Elliot, G.; Mantle, T. J.
Activation of biliverdin-IXα reductase by inorganic phosphate and related anions, 405:61
Franklin, E. E.
——; Robertson, J. D.
Requirement of Apaf-1 for mitochondrial events and the cleavage or activation of all procaspases during genotoxic stress-induced apoptosis, 405:115
Fraser, P. E. *See* Dorval, V.
Fraser, S. A.
——; Gimenez, I.; Cook, N.; Jennings, I.; Katerelos, M.; Katsis, F.; Levidiotis, V.; Kemp, B. E.; Power, D. A.
Regulation of the renal specific Na^+–K^+–$2Cl^-$ co-transporter NKCC2 by AMP-activated protein kinase (AMPK), 405:85
Freeman, L. J. *See* Lomas, A. C.
Fretz, M. M.
——; Penning, N. A.; Al-Taei, S.; Futaki, S.; Takeuchi, T.; Nakase, I.; Storm, G.; Jones, A. T.
Temperature-, concentration- and cholesterol-dependent translocation of L- and D-octa-arginine across the plasma and nuclear membrane of $CD34^+$ leukaemia cells, 403:335
Frey, A. D. *See* Farrés, J.
Fridman, R. *See* Wu, Y. I.
Friebe, A. *See* Russwurm, M.
Friedman, J.
——; Kraus, S.; Hauptman, Y.; Schiff, Y.; Seger, R.
Mechanism of short-term ERK activation by electromagnetic fields at mobile phone frequencies, 405:559 (*See* Arthur, J. S. C. for online-only commentary)
Frodin, M. *See* Sapkota, G. P.
Fry, B. G. *See* Nair, D. G.
Fröjdö, S.
——; Cozzone, D.; Vidal, H.; Pirola, L.
Resveratrol is a class IA phosphoinositide 3-kinase inhibitor, 406:511
Fujii, J. *See* Iuchi, Y.
Fujise, K. *See* Graidist, P.
Fukami, K. *See* Nishida, T.
Fukamizo, T. *See* Tamoi, M.
Fukamizu, A. *See* Zhang, J.
Fukuda, M. N. *See* Miyoshi, M.
Furuhama, K. *See* Hattori, H.
Furukawa, Keiko *See* Senda, M.
Furukawa, Koichi *See* Senda, M.
Futaki, S. *See* Fretz, M. M.

Gabriel, I. *See* Olchowy, J.
Gadella, B. M. *See* Ono, N.
Gagné, S. *See* Doucet, A.
Gaietta, G. M. *See* Sosinsky, G. E.
Gaillard, J. *See* Dycke, C.
Galaris, D. *See* Tenopoulou, M.
Galione, A. *See* Morgan, A. J.
Gallacher, G. *See* Boucher, G.
Gane, P. *See* Collec, E.
Gao, P. *See* Cong, L.
Garateix, A. *See* Salceda, E.
Garcia, A.
——; Shankar, H.; Murugappan, S.; Kim, Soochong; Kunapuli, S. P.
Regulation and functional consequences of ADP receptor-mediated ERK2 activation in platelets, 404:299
García-Martínez, C. *See* Montori-Grau, M.
García-Marín, L. J. *See* Cerezo-Guisado, M. I.
García-Román, N. *See* Cerezo-Guisado, M. I.
Gardiner, D. L. *See* Jackson, K. E.
Garidel, P. *See* Andrä, J.
Garin, J. *See* Jensen, A. G.
Garman, S. C. *See* Ishii, S.
Garofalo, T. *See* Barbat, C.
Garzia, L. *See* Middelhaufe, S.
Gasingirwa, M. C. *See* Wattiaux, R.
Gauthier, B. R.
——; Gosmain, Y.; Mamin, A.; Philippe, J.
The β-cell specific transcription factor Nkx6.1 inhibits glucagon gene transcription by interfering with Pax6, 403:593
Gauthier, E. *See* Collec, E.
Gavigan, J.-A. *See* Li, J.
Gaymard, F. *See* Arnaud, N.
Gazdoiu, S. *See* Nakayama, K.
Gebruers, K. *See* Fierens, E.
Gelhaus, C. *See* Bruhn, O.
Gemayel, R. *See* Fortpied, J.
Geng, J. *See* Wang, H.
Genicot, S. *See* Guibet, M.
Genn, D. N. *See* Ehrismann, D.
Georgescauld, F. *See* Mocan, I.
Geraghty, K. M.
——; Chen, S.; Harthill, J. E.; Ibrahim, A. F.; Toth, R.; Morrice, N. A.; Vandermoere, F.; Moorhead, G. B.; Hardie, D. G.; Mackintosh, C.
Regulation of multisite phosphorylation and 14-3-3 binding of AS160 in response to IGF-1, EGF, PMA and AICAR, 407:231
Gerday, C. *See* Sonan, G. K.
Geremia, S. *See* Wuerges, J.
Gessert, S. *See* Giamas, G.
Gettins, P. G. W. *See* Doan, N.
Gettys, T. W. *See* Teran-Garcia, M.
Gevaert, K. *See* Lavens, D.

© 2008 Biochemical Society

Gharbi, S. I.
——; Zvelebil, M. J.; Shuttleworth, S. J.; Hancox, T.; Saghir, N.; Timms, J. F.; Waterfield, M. D.
Exploring the specificity of the PI3K family inhibitor LY294002, 404:15
Ghazi, A. *See* Park, K.-H.
Gheyi, T. *See* Sheth, P.
Gho, Y. S. *See* Han, K. Y.
Ghosh, H. S.
——; Spencer, J. V.; Ng, B.; McBurney, M. W.; Robbins, P. D.
Sirt1 interacts with transducin-like enhancer of split-1 to inhibit nuclear factor κB-mediated transcription, 408:105
Giamas, G.
——; Hirner, H.; Shoshiashvili, L.; Grothey, A.; Gessert, S.; Kühl, M.; Henne-Bruns, D.; Vorgias, C. E.; Knippschild, U.
Phosphorylation of CK1δ: identification of Ser^{370} as the major phosphorylation site targeted by PKA *in vitro* and *in vivo*, 406:389
Gianni, S. *See* Federici, L.
Giartosio, A. *See* Mocan, I.
Gidalevitz, T. *See* Biswas, C.
Gifford, J. L.
——; Walsh, M. P.; Vogel, H. J.
Structures and metal-ion-binding properties of the Ca^{2+}-binding helix–loop–helix EF-hand motifs, 405:199
Gijón, M. A. *See* Murphy, R. C.
Gilberger, T. *See* Jackson, K. E.
Gilbert, H. J. *See* Cicortas Gunnarsson, L.
Gillard, N.
——; Goffinont, S.; Buré, C.; Davidkova, M.; Maurizot, J.-C.; Cadene, M.; Spotheim-Maurizot, M.
Radiation-induced oxidative damage to the DNA-binding domain of the lactose repressor, 403:463
Gillardon, F. *See* Jaleel, M.
Gimenez, I. *See* Fraser, S. A.
Giménez-Gallego, G. *See* Salceda, E.
Gioia, M. *See* Monaco, S.
Giorgi, A. *See* Malerba, F.
Giorgianni, F. *See* Sheth, P.
Giuffrida, A. *See* Ferrer, B.
Gladyshev, V. N. *See* Kim, H.-Y.; Xu, X.-M.
Glatt, H. *See* Teubner, W.
Goesaert, H. *See* Fierens, E.
Goffin, V. *See* Crépin, A.
Goffinont, S. *See* Gillard, N.
Gokool, S.
——; Tattersall, D.; Reddy, J. V.; Seaman, M. N. J.
Identification of a conserved motif required for Vps35p/Vps26p interaction and assembly of the retromer complex, 408:287
Goldberg, D. *See* Klonis, N.
Goldstein, I. J. *See* Van Damme, E. J. M.
Golyshev, S. A. *See* Bryantsev, A. L.
Gómez-Foix, A. M. *See* Montori-Grau, M.
Gonin, P. *See* Mocan, I.
Goodyear, L. J. *See* Koh, H.-J.
Gopalan, G. *See* Lim, S. K.
Gopinath, S. C. B.
——; Shikamoto, Y.; Mizuno, H.; Kumar, P. K. R.
Snake-venom-derived Factor IX-binding protein specifically blocks the γ-carboxyglutamic acid-rich-domain-mediated membrane binding of human Factors IX and X, 405:351
Gordge, M. P. *See* Bell, S. E.
Gordon, D. *See* Moran, Y.
Gosmain, Y. *See* Gauthier, B. R.
Goswami, S. K. *See* Das, D.
Götze, S. *See* Homann, A.
Goulding, R. E. *See* Johnson, J. E.
Gourlay, R. *See* Pearce, L. R.
Graidist, P.
——; Yazawa, M.; Tonganunt, M.; Nakatomi, A.; Lin, C. C.-J.; Chang, J.-Y.; Phongdara, A.; Fujise, K.
Fortilin binds Ca^{2+} and blocks Ca^{2+}-dependent apoptosis *in vivo*, 408:181
Grainger, M. *See* Bowyer, P. W.
Grant, G. E. *See* Erlemann, K.-R.
Grauert, M. *See* Sapkota, G. P.
Gray, A. *See* Batty, I. H.
Greene, D. N.
——; Whitney, S. M.; Matsumura, I.
Artificially evolved *Synechococcus* PCC6301 Rubisco variants exhibit improvements in folding and catalytic efficiency, 404:517
Greenough, M. *See* Hardman, B.
Greiderer, B. *See* Reitinger, S.
Gremski, W. *See* da Silveira, R. B.
Griffiths, T. A. M. *See* Wang, F.
Grise, F.
——; Taib, N.; Monterrat, C.; Lagrée, V.; Lang, J.
Distinct roles of the C_2A and the C_2B domain of the vesicular Ca^{2+} sensor synaptotagmin 9 in endocrine β-cells, 403:483
Groeger, G.
——; Nobes, C. D.
Co-operative Cdc42 and Rho signalling mediates ephrinB-triggered endothelial cell retraction, 404:23
Grohmann, F. *See* Arlt, A.
Grompe, M. *See* Bateman, R. L.
Grondin, P. O. *See* Sanders, M. J.
Grønning, L. M. *See* Chaussade, C.
Groothuis, T. A. M. *See* Ono, N.
Gross, V. *See* Muller, D. N.
Grosse, F. *See* Taneja, P.
Grothey, A. *See* Giamas, G.
Grotzer, M. A. *See* Arcaro, A.
Grötzinger, J. *See* Bruhn, O.
Grujic, M. *See* Braga, T.
Guerardel, Y. *See* Teintenier-Lelièvre, M.
Guerreiro, A. S. *See* Arcaro, A.
Guibet, M.
——; Colin, S.; Barbeyron, T.; Genicot, S.; Kloareg, B.; Michel, G.; Helbert, W.
Degradation of λ-carrageenan by *Pseudoalteromonas carrageenovora* λ-carrageenase: a new family of glycoside hydrolases unrelated to κ- and ι-carrageenases, 404:105
Guigas, B.
——; Taleux, N.; Foretz, M.; Detaille, D.; Andreelli, F.; Viollet, B.; Hue, L.
AMP-activated protein kinase-independent inhibition of hepatic mitochondrial oxidative phosphorylation by AICA riboside, 404:499
Guimarães Coelho, R. *See* Costa Leite, T.
Guitart, M. *See* Montori-Grau, M.
Gunaratne, R. S. *See* Bowyer, P. W.
Guo, H. *See* Bhattacharya, S.
Gur, M. *See* Moran, Y.
Gurevitz, M. *See* Moran, Y.
Gustafsson, A. B. *See* Kubli, D. A.
Gustafsson, J.-Å. *See* Jakobsson, T.; Matthews, J.
Gutierrez, J. *See* Sainz, E.
Gutsmann, T. *See* Andrä, J.

Ha, Y. J. *See* Jung, S. H.
Haakenson, W. *See* Brendza, K. M.
Hadaschik, D. *See* Benyoucef, S.
Hagiwara, T. *See* Senda, M.
Hai, T. *See* Lu, D.
Haldosén, L.-A. *See* Matthews, J.
Hall, K. J.
——; Jones, M. L.; Poole, A. W.
Coincident regulation of PKCδ in human platelets by phosphorylation of Tyr^{311} and Tyr^{565} and phospholipase C signalling, 406:501
Halling, K. K. *See* Helppolainen, S. H.
Halliwell, B.
——; Oxidative stress and cancer: have we moved forward?, 401:1
Hamada, T. *See* Bannister, M. L.
Hamamouch, N. *See* Nissley, D. V.
Hamilton, S. K. *See* Robinson, M. M.
Hampton, E. N. *See* Li, J.
Han, D. *See* Iñarrea, P.
Han, K. Y.
——; Hong, B. S.; Yoon, Y. J.; Yoon, C. M.; Kim, Y.-K.; Kwon, Y.-G.; Gho, Y. S.
Polyphosphate blocks tumour metastasis via anti-angiogenic activity, 406:49
Han, Y.-M. *See* Lee, J.
Hancox, T. *See* Gharbi, S. I.
Hansen, B. S. *See* Lou, P.-H.
Hansen, J. C. *See* Robinson, M. M.
Hanssen, E. *See* Jackson, K. E.
Hansson, M. L. *See* Saint Just Ribeiro, M.
Hara, H. *See* Murayama, T.
Hardie, D. G. *See* Geraghty, K. M.
Hardman, B.
——; Michalczyk, A.; Greenough, M.; Camakaris, J.; Mercer, J. F. B.; Ackland, M. L.
Hormonal regulation of the Menkes and Wilson copper-transporting ATPases in human placental Jeg-3 cells, 402:241 (*See* Richardson, D. R. for online-only commentary)
Harduin-Lepers, A. *See* Teintenier-Lelièvre, M.
Harris, A. *See* Blackledge, N. P.
Harris, J. L. *See* Li, J.
Harrison, C. J. *See* Caddick, S. E. K.
Harthill, J. E. *See* Geraghty, K. M.
Hartmann, H. *See* Taneja, P.
Harvey, P. J. *See* Bannister, M. L.
Haser, R. *See* Sonan, G. K.
Hashikawa, T. *See* Yamazaki, Y.
Hassan, A. H.
——; Awad, S.; Al-Natour, Z.; Othman, S.; Mustafa, F.; Rizvi, T. A.
Selective recognition of acetylated histones by bromodomains in transcriptional co-activators, 402:125
Hastie, C. J. *See* Bain, J.
Hatano, N. *See* Song, T.
Hatch, G. M. *See* Van, Q.
Hatfield, D. L. *See* Xu, X.-M.
Hattori, H.
——; Imai, H.; Kirai, N.; Furuhama, K.; Sato, O.; Konishi, K.; Nakagawa, Y.
Identification of a responsible promoter region and a key transcription factor, CCAAT/enhancer-binding protein ε, for up-regulation of PHGPx in HL60 cells stimulated with TNFα, 408:277
Hatzoglou, M. *See* Lopez, A. B.
Hauptman, Y. *See* Friedman, J.
Hawthorne, P. L. *See* Jackson, K. E.

© 2008 Biochemical Society

Hay, R. T. *See* Dorval, V.
Hayes, J. *See* Franklin, E.
Hayes, J. D. *See* Zhang, Y.
He, H. *See* Koh, H.-J.
Heart, E.
——; Yaney, G. C.; Corkey, R. F.; Schultz, V.; Luc, E.; Liu, L.; Deeney, J. T.; Shirihai, O.; Tornheim, K.; Smith, P. J. S.; Corkey, B. E.
Ca^{2+}, NAD(P)H and membrane potential changes in pancreatic β-cells by methyl succinate: comparison with glucose, 403:197
Heby, O. *See* Dufe, V. T.
Hediger, M. A. *See* Mackenzie, B.
Hegarty, B. D. *See* Sanders, M. J.
Hegedus, D. D. *See* Wan, L.
Heinemann, I. U.
——; Diekmann, N.; Masoumi, A.; Koch, M.; Messerschmidt, A.; Jahn, M.; Jahn, D.
Functional definition of the tobacco protoporphyrinogen IX oxidase substrate-binding site, 402:575
Helbert, W. *See* Guibet, M.
Heldin, C.-H. *See* Li, L.
Heldin, P. *See* Li, L.
Heldring, N. *See* Matthews, J.
Helguero, L. *See* Matthews, J.
Hell, S. W. *See* Stiel, A. C.
Hellman, L. *See* Braga, T.
Hellmer, H. *See* Klimacek, M.
Helppolainen, S. H.
——; Nurminen, K. P.; Määttä, J. A. E.; Halling, K. K.; Slotte, J. P.; Huhtala, T.; Liimatainen, T.; Ylä-Herttuala, S.; Airenne, K. J.; Närvänen, A.; Jänis, J.; Vainiotalo, P.; Valjakka, J.; Kulomaa, M. S.; Nordlund, H. R.
Rhizavidin from *Rhizobium etli*: the first natural dimer in the avidin protein family, 405:397
Helps, N. R. *See* Browne, G. J.
Hemmings, A. M. *See* Clarke, T. A.
Hémon, B. *See* Piessen, G.
Hempel, R. *See* Moreth, K.
Henderson, M. P. A.
——; Hwang, Y. T.; Dyer, J. M.; Mullen, R. T.; Andrews, D. W.
The C-terminus of cytochrome b_5 confers endoplasmic reticulum specificity by preventing spontaneous insertion into membranes, 401:701
Hendry, L. *See* Schuster, B.
Henne-Bruns, D. *See* Giamas, G.
Hercule, H. *See* Muller, D. N.
Hewitson, K. S. *See* Ehrismann, D.
Hicks, L. M. *See* Brendza, K. M.
Higashi, Y. *See* Liu, Y.
Higgins, C. F. *See* Randle, R. A.
High, S. *See* Callan, A. C.
Hildmann, C. *See* Moreth, K.
Hill, A. F. *See* Caragounis, A.
Hill, C. S. *See* Biondi, C. A.
Hirabayashi, J. *See* Van Damme, E. J. M.
Hirabayashi, Y. *See* Yamazaki, Y.
Hirner, H. *See* Giamas, G.
Hirshman, M. F. *See* Koh, H.-J.
Hirvonen, H. *See* Jakobsson, E.
Hnia, K.
——; Zouiten, D.; Cantel, S.; Chazalette, D.; Hugon, G.; Fehrentz, J.-A.; Masmoudi, A.; Diment, A.; Bramham, J.; Mornet, D.; Winder, S. J.
ZZ domain of dystrophin and utrophin: topology and mapping of a β-dystroglycan interaction site, 401:667
Hodges, L. *See* Sheldrick, E. L. R.
Hoegg, M. *See* Solis, G. P.
Hoffmann, M. *See* Sapkota, G. P.
Holder, A. A. *See* Bowyer, P. W.
Holleran, B. J.
——; Beaulieu, M.-E.; Proulx, C. D.; Lavigne, P.; Escher, E.; Leduc, R.
Photolabelling the urotensin II receptor reveals distinct agonist- and partial-agonist-binding sites, 402:51
Holman, G. D. *See* Koumanov, F.
Holtrop, M. *See* de Jonge, J.
Homann, A.
——; Biedendieck, R.; Götze, S.; Jahn, D.; Seibel, J.
Insights into polymer versus oligosaccharide synthesis: mutagenesis and mechanistic studies of a novel levansucrase from *Bacillus megaterium*, 407:189
Honeck, H. *See* Muller, D. N.
Hong, B. S. *See* Han, K. Y.
Hong, M.
——; Tanaka, K.; Pan, Z.; Ma, J.; You, G.
Determination of the external loops and the cellular orientation of the N- and the C-termini of the human organic anion transporter hOAT1, 401:515
Hooks, M. A.
——; Turner, J. E.; Murphy, E. C.; Johnston, K. A.; Burr, S.; Jaroslawski, S.
The *Arabidopsis* ALDP protein homologue COMATOSE is instrumental in peroxisomal acetate metabolism, 406:399
Hooper, N. M. *See* Taylor, D. R.
Hopkins, L. *See* Thackray, A. M.
Horan, I. *See* Vosper, J. M. D.
Horibata, Y. *See* Yamazaki, Y.
Hornemann, T.
——; Wei, Y.; von Eckardstein, A.
Is the mammalian serine palmitoyltransferase a high-molecular-mass complex?, 405:157
Horvath, A. J. *See* Paterson, M. A.
Horwitz, J. *See* Ecroyd, H.
Hoshino, T.
——; Nakaya, T.; Araki, W.; Suzuki, K.; Suzuki, T.; Mizushima, T.
Endoplasmic reticulum chaperones inhibit the production of amyloid-β peptides, 402:581
Hosoya, T. *See* Zhang, J.
Houslay, M. D. *See* Baillie, G. S.; Wang, H.
Houslay, T. M. *See* Baillie, G. S.
Howe, J. *See* Andrä, J.
Howell, M. *See* Biondi, C. A.
Hresko, M. C. *See* Brendza, K. M.
Hsieh, Y.-C.
——; Tu, P.-J.; Lee, Y.-Y.; Kuo, C.-C.; Lin, Y.-C.; Wu, C.-F.; Lin, J.-J.
The U3 small nucleolar ribonucleoprotein component Imp4p is a telomeric DNA-binding protein, 408:387
Hu, C.-W. *See* Chao, M.-R.
Hu, J. *See* Li, B.
Hu, T.
——; Manjula, B. N.; Li, D.; Brenowitz, M.; Acharya, S. A.
Influence of intramolecular cross-links on the molecular, structural and functional properties of PEGylated haemoglobin, 402:143
Hu, W. *See* Song, Y.
Huan, L.-J. *See* Stratford, F. L. L.
Huang, C. C. *See* Lopez, A. B.
Huang, C.-L. *See* Wang, S.-C.
Huang, H. *See* Liu, M.
Huang, J.-H.
——; Yang, H.-W.; Liu, S.; Li, J.; Jiang, S.; Chen, Y.-H.
The mechanism by which molecules containing the HIV-1 gp41 core-binding motif HXXNPF inhibit HIV-1 envelope glycoprotein-mediated syncytium formation, 403:565
Huang, J.
——; Song, D.; Flores, A.; Zhao, Q.; Mooney, S. M.; Shaw, L. M.; Lee, F. S.
IOP1, a novel hydrogenase-like protein that modulates hypoxia-inducible factor-1α activity, 401:341
Huang, S.-M.
——; Huang, S.-P.; Wang, S.-L.; Liu, P.-Y.
Importin α_1 is involved in the nuclear localization of Zac1 and the induction of $p21^{WAF1/CIP1}$ by Zac1, 402:359
Huang, S.-P. *See* Huang, S.-M.
Huang, W.-J. *See* Li, J.
Huang, X. *See* Pearce, L. R.
Hubert, N. *See* Mackenzie, B.
Huckriede, A. *See* de Jonge, J.
Hue, L. *See* Guigas, B.
Hugon, G. *See* Hnia, K.
Huhtala, T. *See* Helppolainen, S. H.
Hui, D. *See* Agbas, A.
Hulmes, D. J. S. *See* Bonod-Bidaud, C.
Hung, Y. H.
——; Layton, M. J.; Voskoboinik, I.; Mercer, J. F. B.; Camakaris, J.
Purification and membrane reconstitution of catalytically active Menkes copper-transporting P-type ATPase (MNK; ATP7A), 401:569
Hunt, D. J.
——; Jones, P. P.; Wang, R.; Chen, W.; Bolstad, J.; Chen, K.; Shimoni, Y.; Chen, S. R. W.
K201 (JTV519) suppresses spontaneous Ca^{2+} release and [^{3}H]ryanodine binding to RyR2 irrespective of FKBP12.6 association, 404:431
Hurley, T. D. *See* Bateman, R. L.
Hurtaud, C. *See* Emre, Y.
Hwang, Y. T. *See* Henderson, M. P. A.
Hynynen, R. *See* Suchanek, M.

Iafelice, R.
——; Cristoni, S.; Caccia, D.; Russo, R.; Rossi-Bernardi, L.; Lowe, K. C.; Perrella, M.
Identification of the sites of deoxyhaemoglobin PEGylation, 403:189
Ibrahim, A. F. *See* Geraghty, K. M.
Ibrahim, A. F. M. *See* Pearce, L. R.
Ichijo, H. *See* Saito, J.-i.
Idell, S. *See* Yasuda, S.
Igarashi, Y. *See* Timmer, J. C.
Ihara, H. *See* Song, T.
Iida, J.
——; Wilhelmson, K. L.; Ng, J.; Lee, P.; Morrison, C.; Tam, E.; Overall, C. M.; McCarthy, J. B.
Cell surface chondroitin sulfate glycosaminoglycan in melanoma: role in the activation of pro-MMP-2 (pro-gelatinase A), 403:553
Ijlst, L. *See* Visser, W. F.
Ikeda, H. *See* Ohta, K.
Ikemoto, N. *See* Bannister, M. L.; Murayama, T.
Imagawa, M. *See* Ohta, K.
Imai, H. *See* Hattori, H.

© 2008 Biochemical Society

Iñarrea, P.
——; Moini, H.; Han, D.; Rettori, D.; Aguiló, I.; Alava, M. A.; Iturralde, M.; Cadenas, E.
Mitochondrial respiratory chain and thioredoxin reductase regulate intermembrane Cu,Zn-superoxide dismutase activity: implications for mitochondrial energy metabolism and apoptosis, 405:173
Ingner, D. *See* Dufe, V. T.
Intaglietta, M. *See* Acharya, S. A.
Into, T. *See* Zheng, L.
Iohara, K. *See* Zheng, L.
Irigoín, F. *See* Piacenza, L.
Irons, R. *See* Xu, X.-M.
Ironside, J. *See* Li, C.
Ishigami, S.
——; Sandkvist, M.; Tsui, F.; Moore, E.; Coleman, T. A.; Lawrence, D. A.
Identification of a novel targeting sequence for regulated secretion in the serine protease inhibitor neuroserpin, 402:25
Ishii, S.
——; Chang, H.-H.; Kawasaki, K.; Yasuda, K.; Wu, H.-L.; Garman, S. C.; Fan, J.-Q.
Mutant α-galactosidase A enzymes identified in Fabry disease patients with residual enzyme activity: biochemical characterization and restoration of normal intracellular processing by 1-deoxygalactonojirimycin, 406:285
Ishikawa, M. *See* Zheng, L.
Ishikawa, T. *See* Ono, N.
Islam, A. *See* Biondi, C. A.
Ito, A. *See* Senda, M.
Itoh, K. *See* Zhang, J.
Iturralde, M. *See* Iñarrea, P.
Iuchi, Y.
——; Okada, F.; Onuma, K.; Onoda, T.; Asao, H.; Kobayashi, M.; Fujii, J.
Elevated oxidative stress in erythrocytes due to a SOD1 deficiency causes anaemia and triggers autoantibody production, 402:219
Izumi, S. *See* Kurayoshi, M.
Izumi, T. *See* Zhao, J.
Izumikawa, T.
——; Uyama, T.; Okuura, Y.; Sugahara, K.; Kitagawa, H.
Involvement of chondroitin sulfate synthase-3 (chondroitin synthase-2) in chondroitin polymerization through its interaction with chondroitin synthase-1 or chondroitin-polymerizing factor, 403:545

Jackson, K. *See* Klonis, N.
Jackson, K. E.
——; Spielmann, T.; Hanssen, E.; Adisa, A.; Separovic, F.; Dixon, M. W. A.; Trenholme, K. R.; Hawthorne, P. L.; Gardiner, D. L.; Gilberger, T.; Tilley, L.
Selective permeabilization of the host cell membrane of *Plasmodium falciparum*-infected red blood cells with streptolysin O and equinatoxin II, 403:167
Jackson, S. P. *See* Arcaro, A.; Chaussade, C.
Jadot, M. *See* Jensen, A. G.; Wattiaux, R.
Jaffrézou, J.-P. *See* Charruyer, A.
Jäger, R. *See* Russwurm, M.
Jagielska, E. *See* Cieśla, J.
Jahn, D. *See* Heinemann, I. U.; Homann, A.
Jahn, M. *See* Heinemann, I. U.
Jakobs, S. *See* Stiel, A. C.
Jakobsson, E.
——; Jokilammi, A.; Aalto, J.; Ollikka, P.; Lehtonen, J. V.; Hirvonen, H.; Finne, J.
Identification of amino acid residues at the active site of endosialidase that dissociate the polysialic acid binding and cleaving activities in *Escherichia coli* K1 bacteriophages, 405:465
Jakobsson, T.
——; Osman, W.; Gustafsson, J.-Å.; Zilliacus, J.; Wärnmark, A.
Molecular basis for repression of liver X receptor-mediated gene transcription by receptor-interacting protein 140, 405:31
Jaleel, M.
——; Nichols, R. J.; Deak, M.; Campbell, D. G.; Gillardon, F.; Knebel, A.; Alessi, D. R.
LRRK2 phosphorylates moesin at threonine-558: characterization of how Parkinson's-disease mutants affect kinase activity, 405:307
James, N. G. *See* Wang, F.
James, P. *See* Rogstam, A.
Jämsen, J.
——; Tuominen, H.; Salminen, A.; Belogurov, G. A.; Magretova, N. N.; Baykov, A. A.; Lahti, R.
A CBS domain-containing pyrophosphatase of *Moorella thermoacetica* is regulated by adenine nucleotides, 408:327
Jan, G.
——; Delorme, V.; David, V.; Revenu, C.; Rebollo, A.; Cayla, X.; Tardieux, I.
The toxofilin–actin–PP2C complex of *Toxoplasma*: identification of interacting domains, 401:711
Janbandhu, V. C. *See* Mukherji, A.
Janelle, M. F. *See* Doucet, A.
Jänis, J. *See* Helppolainen, S. H.
Jans, D. A. *See* Wagstaff, K. M.
Jardin, I.
——; Ben Amor, N.; Bartegi, A.; Pariente, J. A.; Salido, G. M.; Rosado, J. A.
Differential involvement of thrombin receptors in Ca^{2+} release from two different intracellular stores in human platelets, 401:167
Jarosławski, S. *See* Hooks, M. A.
Järver, P. *See* El-Andaloussi, S.
Jean, C. *See* Charruyer, A.
Jenkins, G. I. *See* Chen, Z.-H.
Jennings, I. *See* Fraser, S. A.
Jenny, T. *See* Cerantola, V.
Jensen, A. G.
——; Chemali, M.; Chapel, A.; Kieffer-Jaquinod, S.; Jadot, M.; Garin, J.; Journet, A.
Biochemical characterization and lysosomal localization of the mannose 6-phosphate protein p76 (hypothetical protein LOC196463), 402:449
Jepson, B. J. N. *See* Dridge, E. J.
Jesaitis, A. J. *See* Nakano, Y.
Jessop, C. E. *See* Chakravarthi, S.
Jez, J. M. *See* Brendza, K. M.
Jiang, Shibo *See* Huang, J.-H.
Jiang, Shimin
——; Li, C.; Zhang, W.; Cai, Y.; Yang, Y.; Yang, S.; Jiang, W.
Directed evolution and structural analysis of *N*-carbamoyl-D-amino acid amidohydrolase provide insights on recombinant protein solubility in *Escherichia coli*, 402:429
Jiang, W. *See* Jiang, S.
Jiang, Z.-g. *See* Larade, K.
Jiménez-Barbero, J. *See* Salceda, E.
Jin, H. *See* Li, B.
Jin, J. L. *See* Jung, S. H.
Jitrapakdee, S. *See* Boonsaen, T.
Jochum, M. *See* Ries, C.
Johansson, H. J. *See* El-Andaloussi, S.
Johansson, M. *See* Suchanek, M.
John, S. *See* Schuster, B.
Johnson, J. E.
——; Goulding, R. E.; Ding, Z.; Partovi, A.; Anthony, K. V.; Beaulieu, N.; Tazmini, G.; Cornell, R. B.; Kay, R. J.
Differential membrane binding and diacylglycerol recognition by C1 domains of RasGRPs, 406:223
Johnson, J. L. *See* Flom, G.; Munafó, D. B.; Pacquelet, S.
Johnson, L. R. *See* Bhattacharya, S.
Johnson, N. P. *See* Blanca, G.
Johnson, P. F. *See* Lopez, A. B.
Johnson, S. *See* Caddick, S. E. K.
Johnston, K. A. *See* Hooks, M. A.
Jokilammi, A. *See* Jakobsson, E.
Jona, I. *See* Altafaj, X.
Jonas, M. C. *See* Costantini, C.
Jonckheere, N. *See* Piessen, G.
Jones, A. T. *See* Fretz, M. M.
Jones, C. E. *See* O'Sullivan, D. B. D.
Jones, E. V.
——; Dickman, M. J.; Whitmarsh, A. J.
Regulation of p73-mediated apoptosis by c-Jun N-terminal kinase, 405:617
Jones, L. *See* Litjens, T.
Jones, M. L. *See* Hall, K. J.
Jones, O. T. *See* Callan, A. C.
Jones, P. P. *See* Hunt, D. J.
Joshi, B.
——; Rastogi, S.; Morris, M.; Carastro, L. M.; DeCook, C.; Seto, E.; Chellappan, S. P.
Differential regulation of human *YY1* and *caspase 7* promoters by prohibitin through E2F1 and p53 binding sites, 401:155
Joshua-Tor, L. *See* O'Farrell, P. A.
Journet, A. *See* Jensen, A. G.
Ju, Y.-W. *See* Lin, X.
Juliano, L. *See* Machado, M. F. M.
Juliano, M. A. *See* Machado, M. F. M.
Juliant, S. *See* Teintenier-Lelièvre, M.
Julien, S. *See* Teintenier-Lelièvre, M.
Jung, S. *See* Bruhn, O.
Jung, S. H.
——; Ha, Y. J.; Shim, E. K.; Choi, S. Y.; Jin, J. L.; Yun-Choi, H. S.; Lee, J. R.
Insulin-mimetic and insulin-sensitizing activities of a pentacyclic triterpenoid insulin receptor activator, 403:243
Just, V. J.
——; Burrell, M. R.; Bowater, L.; McRobbie, I.; Stevenson, C. E. M.; Lawson, D. M.; Bornemann, S.
The identity of the active site of oxalate decarboxylase and the importance of the stability of active-site lid conformations, 407:397
Juvvadi, P. R.
——; Maruyama, J.-i.; Kitamoto, K.
Phosphorylation of the *Aspergillus oryzae* Woronin body protein, AoHex1, by protein kinase C: evidence for its role in the multimerization and proper localization of the Woronin body protein, 405:533

Kabakov, A. E. *See* Bryantsev, A. L.
Kaberdin, V. R. *See* Zeller, M.-E.
Kachholz, B. *See* Middelhaufe, S.

© 2008 Biochemical Society

Kadler, K.
Collagen pretzels revealed by electron microscopy, 404:e7 (online-only commentary on Myers, J. C.)
Kahn, R. *See* Moran, Y.
Kainou, K. *See* Kamisaka, Y.
Kalanxhi, E.
——; Wallace, C. J. A.
Cytochrome *c* impaled: investigation of the extended lipid anchorage of a soluble protein to mitochondrial membrane models, 407:179
Kale, G. *See* Sheth, P.
Kallio, P. T. *See* Farrés, J.
Kalm, E. *See* Bruhn, O.
Kaltashov, I. A. *See* Wang, F.
Kambe, T. *See* Song, T.
Kamisaka, Y.
——; Tomita, N.; Kimura, K.; Kainou, K.; Uemura, H.
DGA1 (diacylglycerol acyltransferase gene) overexpression and leucine biosynthesis significantly increase lipid accumulation in the Δ*snf2* disruptant of *Saccharomyces cerevisiae*, 408:61
Kampinga, H. H. *See* Bryantsev, A. L.
Kandlbinder, A. *See* Laxa, M.
Kaneda, T. *See* Senda, M.
Kang, C.-W. *See* Park, Y.-S.
Kang, I. Y. *See* Lee, J.
Kang, J. S.
——; Correlation between functional and binding activities of designer zinc-finger proteins, 403:177
Kang, S.-C. *See* Li, C.; Yu, S.
Kanika, N. D. *See* Acharya, S. A.
Kannathasan, V. S. *See* Westman, E. L.
Kanon, B. *See* Bryantsev, A. L.
Kanse, S. M. *See* Muhl, L.; Shibamiya, A.
Kappes, B. *See* Fitzpatrick, T. B.
Karbat, I. *See* Moran, Y.
Kardassis, D. *See* Koukos, G.
Kasama, K. *See* Senda, M.
Katagiri, Y. *See* Senda, M.
Katanaev, V. L.
——; Chornomorets, M.
Kinetic diversity in G-protein-coupled receptor signalling, 401:485
Katerelos, M. *See* Fraser, S. A.
Kato, H. *See* Kimura, Y.
Katsis, F. *See* Fraser, S. A.
Kaur, H. *See* Logan, F. J.
Kavanagh, K. L. *See* Lukacik, P.
Kavurma, M. M.
——; Figg, N.; Bennett, M. R.; Mercer, J.; Khachigian, L. M.; Littlewood, T. D.
Oxidative stress regulates IGF1R expression in vascular smooth-muscle cells via p53 and HDAC recruitment, 407:79
Kawahara, H. *See* Minami, R.
Kawasaki, K. *See* Ishii, S.
Kay, R. J. *See* Johnson, J. E.
Kazanietz, M. G. *See* Yang, C.
Kazantseva, J. *See* Voronova, A.
Ke, H. *See* Wang, H.
Ke, Y. *See* Wiemuth, D.
Keene, D. R. *See* Brandt-Bohne, U.
Keller, B. *See* Lukacik, P.
Kelly, J. M. *See* Logan, F. J.; Piacenza, L.
Kemp, B. E. *See* Fraser, S. A.
Kendall, J. D. *See* Chaussade, C.
Kermode, A. R. *See* Wan, L.
Kerr, I. D.
——; Bennett, M. J.
New insight into the biochemical mechanisms regulating auxin transport in plants, 401:613
Ketterman, A. J. *See* Piromjitpong, J.; Vararattanavech, A.; Winayanuwattikun, P.
Ketudat Cairns, J. R. *See* Opassiri, R.
Ketudat Cairns, M. *See* Opassiri, R.
Keyhanfar, M.
——; Booker, G. W.; Whittaker, J.; Wallace, J. C.; Forbes, B. E.
Precise mapping of an IGF-I-binding site on the IGF-1R, 401:269
Khachigian, L. M. *See* Kavurma, M. M.
Khan, A. G.
——; Shouldice, S. R.; Kirby, S. D.; Yu, R.-h.; Tari, L. W.; Schryvers, A. B.
High-affinity binding by the periplasmic iron-binding protein from *Haemophilus influenzae* is required for acquiring iron from transferrin, 404:217
——; Shouldice, S. R.; Tari, L. W.; Schryvers, A. B.
The role of the synergistic phosphate anion in iron transport by the periplasmic iron-binding protein from *Haemophilus influenzae*, 403:43
Khaturia, S. *See* Ferrer, B.
Khomutov, A. R. *See* Dufe, V. T.
Khurana, S. *See* Paul, T.
Kieffer-Jaquinod, S. *See* Jensen, A. G.
Kielty, C. M. *See* Lomas, A. C.
Kikuchi, A. *See* Kurayoshi, M.
Kilberg, M. S. *See* Pan, Y.-X.
Kim, D. Y. *See* Carey, B. W.
Kim, H. H. *See* Park, M. J.
Kim, H. K. *See* Lee, J.
Kim, H. Y. *See* Park, M. J.
——; Gladyshev, V. N.
Methionine sulfoxide reductases: selenoprotein forms and roles in antioxidant protein repair in mammals, 407:321
Kim, J. *See* Kim, Soi; Lee, J.
Kim, J. H. *See* Park, M. J.; Park, Y.-S.
Kim, J.-J. *See* Kumar, A.
Kim, J. Y. *See* Lee, J.
Kim, Soi
——; Lee, J.; Kim, J.
Regulation of oncogenic transcription factor $hTAF_{II}68$-TEC activity by human glyceraldehyde-3-phosphate dehydrogenase (GAPDH), 404:197
Kim, Soochong *See* Garcia, A.
Kim, S.-W. *See* Park, Y.-S.
Kim, T.-H. *See* Park, Y.-S.
Kim, Y.-K. *See* Han, K. Y.
Kimura, K. *See* Kamisaka, Y.
Kimura, T.
——; Pace, S. M.; Wei, L.; Beard, N. A.; Dirksen, R. T.; Dulhunty, A. F.
A variably spliced region in the type 1 ryanodine receptor may participate in an inter-domain interaction, 401:317
Kimura, Y.
——; Kioka, N.; Kato, H.; Matsuo, M.; Ueda, K.
Modulation of drug-stimulated ATPase activity of human MDR1/P-glycoprotein by cholesterol, 401:597
Kini, R. M. *See* Nair, D. G.
Kioka, N. *See* Kimura, Y.
Kirai, N. *See* Hattori, H.
Kirby, S. D. *See* Khan, A. G.
Kishore, A. H.
——; Batta, K.; Das, C.; Agarwal, S.; Kundu, T. K.
p53 regulates its own activator: transcriptional co-activator *PC4*, a new p53-responsive gene, 406:437
Kiso, M. *See* Senda, M.
Kitagawa, H. *See* Izumikawa, T.
Kitamoto, K. *See* Juvvadi, P. R.
Kitayama, S. *See* Sogawa, C.
Kittell, A. W. *See* Kumar, A.
Klarenbeek, J. B. *See* van der Luit, A. H.
Klaudiny, J. *See* Rendić, D.
Klei, L. R. *See* O'Hara, K. A.
Kleine, T.
——; Leister, D.
Evolutionary tinkering: birth of a novel chloroplast protein, 403:e13 (online-only commentary on Kodama, Y.)
Klemba, M. *See* Klonis, N.
Klevernic, I. *See* Bain, J.
Klewpatinond, M.
——; Viles, J. H.
Fragment length influences affinity for Cu^{2+} and Ni^{2+} binding to His^{96} or His^{111} of the prion protein and spectroscopic evidence for a multiple histidine binding only at low pH, 404:393
Klimacek, M.
——; Hellmer, H.; Nidetzky, B.
Catalytic mechanism of Zn^{2+}-dependent polyol dehydrogenases: kinetic comparison of sheep liver sorbitol dehydrogenase with wild-type and $Glu^{154} \rightarrow$ Cys forms of yeast xylitol dehydrogenase, 404:421
Kloareg, B. *See* Guibet, M.
Klomp, A. E. M. *See* van den Berghe, P. V. E.
Klomp, L. W. J. *See* van den Berghe, P. V. E.
Klonis, N.
——; Tan, O.; Jackson, K.; Goldberg, D.; Klemba, M.; Tilley, L.
Evaluation of pH during cytostomal endocytosis and vacuolar catabolism of haemoglobin in *Plasmodium falciparum*, 407:343
Klussmann, E. *See* Baillie, G. S.
Knebel, A. *See* Jaleel, M.
Knepel, W. *See* Böer, U.
Knippschild, U. *See* Giamas, G.
Knudsen, J. *See* Cerantola, V.; Feddersen, S.
Ko, M. H. *See* Costantini, C.
Kobayashi, H. *See* Shibata, N.
Kobayashi, M. *See* Iuchi, Y.
Kobayashi, R. *See* DeJournett, R. E.
Kobayashi, T. *See* Saito, J.-i.
Kobras, M. *See* Brehm, M. A.
Koch, M. *See* Brandt-Bohne, U.; Heinemann, I. U.
Kodama, S.
——; Moore, R.; Yamamoto, Y.; Negishi, M.
Human nuclear pregnane X receptor cross-talk with CREB to repress cAMP activation of the glucose-6-phosphatase gene, 407:373
Kodama, Y.
——; Sano, H.
Functional diversification of a basic helix–loop–helix protein due to alternative transcription during generation of amphidiploidy in tobacco plants, 403:493 (*See* Kleine, T. for online-only commentary)
Koesling, D. *See* Russwurm, M.
Koh, H.-J.
——; Hirshman, M. F.; He, H.; Li, Y.; Manabe, Y.; Balschi, J. A.; Goodyear, L. J.
Adrenaline is a critical mediator of acute exercise-induced AMP-activated protein

© 2008 Biochemical Society

kinase activation in adipocytes, 403:473
Köhnke, R. *See* Albertsson, P.-A.; Albertsson, P.-Å.
Kominami, J. *See* Van Damme, E. J. M.
Kondratyev, M. *See* Shenkman, M.
Kong, H. J. *See* Park, M. J.
König, J. *See* Laxa, M.
Konishi, K. *See* Hattori, H.
Kopacek, J. *See* Ohradanova, A.
Kortholt, A. *See* Bader, S.
Korzeniewski, B. *See* Dzbek, J.
Kotzia, G. A.
——; Lappa, K.; Labrou, N. E.
Tailoring structure–function properties of L-asparaginase: engineering resistance to trypsin cleavage, 404:337
Koukos, G.
——; Chroni, A.; Duka, A.; Kardassis, D.; Zannis, V. I.
Naturally occurring and bioengineered apoA-I mutations that inhibit the conversion of discoidal to spherical HDL: the abnormal HDL phenotypes can be corrected by treatment with LCAT, 406:167
Koumanov, F.
——; Thrifty Tbc1d1 and Tbc1d4 proteins link signalling and membrane trafficking pathways, 403:e9 (online-only commentary on Roach, W. G.)
Kovacs, D. M. *See* Carey, B. W.
Kozarsky, K. F. *See* Marsche, G.
Kozik, A. *See* Rapala-Kozik, M.
Kozlov, I. A. *See* Shiryaev, S. A.
Kragelund, B. B. *See* Larsen, K. S.
Kraus, S. *See* Friedman, J.
Krause, D. *See* Böer, U.
Krause, K.-H. *See* Serrander, L.
Krauth-Siegel, R. L. *See* Comini, M. A.; Schlecker, T.
Krebs, B. *See* Voronova, A.
Kretzschmar, M. *See* Teubner, W.
Krężel, A.
——; Maret, W.
Different redox states of metallothionein/thionein in biological tissue, 402:551
Krippahl, L. *See* Monaco, S.
Kruithof, E. K. O. *See* Fish, R. J.
Kruse, M.-L. *See* Arlt, A.
Kuang, J. *See* DeJournett, R. E.
Kubli, D. A.
——; Ycaza, J. E.; Gustafsson, A. B.
Bnip3 mediates mitochondrial dysfunction and cell death through Bax and Bak, 405:407
Kühl, M. *See* Giamas, G.
Kulomaa, M. S. *See* Helppolainen, S. H.
Kumagai, K. *See* Sogawa, C.
Kumar, A.
——; Periyannan, G. R.; Narayanan, B.; Kittell, A. W.; Kim, J.-J.; Bennett, B.
Experimental evidence for a metallohydrolase mechanism in which the nucleophile is not delivered by a metal ion: EPR spectrokinetic and structural studies of aminopeptidase from *Vibrio proteolyticus*, 403:527
Kumar, M. S. *See* Kumar, P. A.
Kumar, P. *See* Wang, P.
Kumar, P. A.
——; Kumar, M. S.; Reddy, G. B.
Effect of glycation on α-crystallin structure and chaperone-like function, 408:251
Kumar, P. K. R. *See* Gopinath, S. C. B.
Kumar, P. P. *See* Nair, D. G.
Kumar, V. *See* Mukherji, A.
Kume, K. *See* Song, T.
Kunapuli, S. P. *See* Garcia, A.
Kundu, T. K. *See* Kishore, A. H.
Kuo, C.-C. *See* Hsieh, Y.-C.
Kurayoshi, M.
——; Yamamoto, H.; Izumi, S.; Kikuchi, A.
Post-translational palmitoylation and glycosylation of Wnt-5a are necessary for its signalling, 402:515
Kurchashova, S. Yu. *See* Bryantsev, A. L.
Kurotaki, H. *See* Tamoi, M.
Kurz, T. *See* Tenopoulou, M.
Kwon, Y.-G. *See* Han, K. Y.
Kypreos, K. E.
——; Zannis, V. I.
Pathway of biogenesis of apolipoprotein E-containing HDL *in vivo* with the participation of ABCA1 and LCAT, 403:359

Labrou, N. E. *See* Kotzia, G. A.
Lachaux, A. *See* Mousson de Camaret, B.
Lacombe, M.-L. *See* Mocan, I.
La Fontaine, S. *See* Cater, M. A.
Lagrée, V. *See* Grise, F.
Lahti, R. *See* Jämsen, J.
Lai, H.-L. *See* Wang, S.-C.
Lai, Y.-T. *See* Liu, Y.-N.
Lam, J. S. *See* Westman, E. L.
Lamb, R. F. *See* Findlay, G. M.
Lamba, D. *See* Massa, C.
Lambert, L. A. *See* Wang, F.
Lampe, P. D. *See* Sosinsky, G. E.
Lan, Y.-H. *See* Lu, S.-C.
Landar, A.
——; Darley-Usmar, V. M.
Evidence for oxygen as the master regulator of the responsiveness of soluble guanylate cyclase and cytochrome *c* oxidase to nitric oxide, 405:e3 (online-only commentary on Rodríguez-Juárez, F.)
Landázuri, M. O. *See* Villar, D.
Lane, W. S. *See* Pacquelet, S.
Lang, C. *See* Windheim, M.
Lang, J. *See* Grise, F.
Langel, Ü. *See* El-Andaloussi, S.
Lappa, K. *See* Kotzia, G. A.
Larade, K.
——; Jiang, Z.-g.; Dejam, A.; Zhu, H.; Bunn, H. F.
The reductase NCB5OR is responsive to the redox status in β-cells and is not involved in the ER stress response, 404:467
Lardy, B. *See* Serrander, L.
Larsen, A. K. *See* Escargueil, A. E.
Larsen, K. S.
——; Østergaard, H.; Bjelke, J. R.; Olsen, O. H.; Rasmussen, H. B.; Christensen, L.; Kragelund, B. B.; Stennicke, H. R.
Engineering the substrate and inhibitor specificities of human coagulation Factor VIIa, 405:429
Larsen, S. *See* Mølgaard, A.
Laschober, G. T. *See* Reitinger, S.
Lascu, I. *See* Mocan, I.
Laudet, B.
——; Barette, C.; Dulery, V.; Renaudet, O.; Dumy, P.; Metz, A.; Prudent, R.; Deshiere, A.; Dideberg, O.; Filhol, O.; Cochet, C.
Structure-based design of small peptide inhibitors of protein kinase CK2 subunit interaction, 408:363
Laughton, K. M. *See* Caragounis, A.
Laurent, G. *See* Charruyer, A.
Lauritzen, C. *See* Mølgaard, A.
Lavens, D.
——; Ulrichts, P.; Catteeuw, D.; Gevaert, K.; Vandekerckhove, J.; Peelman, F.; Eyckerman, S.; Tavernier, J.
The C-terminus of CIS defines its interaction pattern, 401:257
Lavigne, P. *See* Holleran, B. J.
Lawrence, D. A. *See* Ishigami, S.
Lawson, D. M. *See* Just, V. J.
Lawson, V. *See* Blackledge, N. P.
Laxa, M.
——; König, J.; Dietz, K.-J.; Kandlbinder, A.
Role of the cysteine residues in *Arabidopsis thaliana* cyclophilin CYP20-3 in peptidyl-prolyl *cis–trans* isomerase and redox-related functions, 401:287
Layton, M. J. *See* Hung, Y. H.
Leatherbarrow, R. J. *See* Bowyer, P. W.
Lebaupain, F. *See* Park, K.-H.
Lebl, M. *See* Shiryaev, S. A.
Lecomte, M.-C. *See* Collec, E.
Lederkremer, G. Z. *See* Shenkman, M.
Leduc, R. *See* Holleran, B. J.
Lee, F. S. *See* Huang, J.
Lee, G. J. *See* Sosinsky, G. E.; Erlemann, K.-R.
Lee, H. J.
——; Mun, H.-C.; Lewis, N. C.; Crouch, M. F.; Culverston, E. L.; Mason, R. S.; Conigrave, A. D.
Allosteric activation of the extracellular Ca^{2+}-sensing receptor by L-amino acids enhances ERK1/2 phosphorylation, 404:141
Lee, J. *See* Kim, Soi
——; Kim, J. Y.; Kang, I. Y.; Kim, H. K.; Han, Y.-M.; Kim, J.
The *EWS–Oct-4* fusion gene encodes a transforming gene, 406:519
Lee, J. R. *See* Jung, S. H.
Lee, J. Y. *See* Li, N.
Lee, P. *See* Iida, J.
Lee, R. M. *See* Van, Q.
Lee, S.
——; Park, H. I.; Sang, Q.-X. A.
Calcium regulates tertiary structure and enzymatic activity of human endometase/matrilysin-2 and its role in promoting human breast cancer cell invasion, 403:31
Lee, W. H. *See* Lukacik, P.
Lee, Y.-B. *See* Chan, C. W.
Lee, Y.-Y. *See* Hsieh, Y.-C.
Lee, Z. *See* Song, Y.
Leenhouts, J. M. *See* de Jonge, J.
Lehming, N. *See* Chew, B. S.
Lehto, M. *See* Suchanek, M.
Lehtonen, J. V. *See* Jakobsson, E.
Leippe, M. *See* Bruhn, O.
Leister, D. *See* Kleine, T.
Leiva-León, J. *See* Andrä, J.
Leleiko, N. S. *See* Paul, T.
Lepperdinger, G. *See* Reitinger, S.
Lerin, C. *See* Montori-Grau, M.
Lesley, S. A. *See* Li, J.
Leslie, N. R. *See* Maccario, H.
Le Van Kim, C. *See* Collec, E.
Leverence, R. *See* Wang, F.
Lévesque, D.
——; Beaudoin, J.-D.; Roy, S.; Perreault, J.-P.

© 2008 Biochemical Society

In vitro selection and characterization of RNA aptamers binding thyroxine hormone, 403:129
Levidiotis, V. *See* Fraser, S. A.
Lewis, N. C. *See* Lee, H. J.
Li, B.
——; Zhou, J.; Liu, P.; Hu, J.; Jin, H.; Shimono, Y.; Takahashi, M.; Xu, G.
Polycomb protein Cbx4 promotes SUMO modification of *de novo* DNA methyltransferase Dnmt3a, 405:369
Li, C. *See* Jiang, S.; Sheth, P.; Yu, S.
——; Wong, P.; Pan, T.; Xiao, F.; Yin, S.; Chang, B.; Kang, S.-C.; Ironside, J.; Sy, M.-S.
Normal cellular prion protein is a ligand of selectins: binding requires Le^X but is inhibited by sLe^X, 406:333
Li, D. *See* Hu, T.
Li, D. Y. *See* Wachi, H.
Li, E.-M. *See* Fang, W.-K.
Li, Ji *See* Cong, L.
Li, Jing *See* Huang, J.-H.
Li, Jun
——; Tumanut, C.; Gavigan, J.-A.; Huang, W.-J.; Hampton, E. N.; Tumanut, R.; Suen, K. F.; Trauger, J. W.; Spraggon, G.; Lesley, S. A.; Liau, G.; Yowe, D.; Harris, J. L.
Secreted PCSK9 promotes LDL receptor degradation independently of proteolytic activity, 406:203
Li, L.
——; Asteriou, T.; Bernert, B.; Heldin, C.-H.; Heldin, P.
Growth factor regulation of hyaluronan synthesis and degradation in human dermal fibroblasts: importance of hyaluronan for the mitogenic response of PDGF-BB, 404:327
Li, N.
——; Cui, Z.; Fang, F.; Lee, J. Y.; Ballatori, N.
Heterodimerization, trafficking and membrane topology of the two proteins, Ostα and Ostβ, that constitute the organic solute and steroid transporter, 407:363
Li, P. *See* Chan, S. C.
Li, Q. *See* Cong, L.; *See* Lin, X.
Li, Q.-X. *See* Caragounis, A.
Li, S. *See* Paul, T.
——; Lu, Y.; Peng, B.; Ding, J.
Crystal structure of human phosphoribosylpyrophosphate synthetase 1 reveals a novel allosteric site, 401:39
Li, X. *See* Baillie, G. S.
Li, Y. *See* Koh, H.-J.; Lopez, A. B.
Li, Y.-K. *See* Wan, C.-F.
Liao, L.-D. *See* Fang, W.-K.
Liau, G. *See* Li, J.
Lienhard, G. E. *See* Roach, W. G.
Liimatainen, T. *See* Helppolainen, S. H.
Lim, S. K.
——; Gopalan, G.
Aurora-A kinase interacting protein 1 (AURKAIP1) promotes Aurora-A degradation through an alternative ubiquitin-independent pathway, 403:119
Lin, C. C.-J. *See* Graidist, P.
Lin, H. *See* Brehm, M. A.
Lin, J.-J. *See* Hsieh, Y.-C.; Lin, Y.-C.
Lin, Q. *See* Liu, M.
Lin, S.-C. *See* Chan, S. C.
Lin, X.
——; Li, Q.; Wang, Y.-J.; Ju, Y.-W.; Chi, Z.-Q.; Wang, M.-W.; Liu, J.-G.
Morphine inhibits doxorubicin-induced reactive oxygen species generation and nuclear factor κB transcriptional activation in neuroblastoma SH-SY5Y cells, 406:215
Lin, Y.-C. *See* Hsieh, Y.-C.
——; Wu Lee, Y.-H.; Lin, J.-J.
Genetic analysis reveals essential and non-essential amino acids within the telomeric DNA-binding interface of Cdc13p, 403:289
Lindh, R. *See* Ahmad, F.
Lindhagen-Persson, M. *See* Olofsson, A.
Lindqvist, A. *See* Rogstam, A.
Line, K. *See* Dridge, E. J.
Linse, S. *See* Rogstam, A.
Liscum, L.
——; A role for NPC1 and NPC2 in intestinal cholesterol absorption – the hypothesis gutted, 408:e1 (online-only commentary on Dixit, S. S.)
Litjens, T.
——; Nguyen, T.; Castro, J.; Aromataris, E. C.; Jones, L.; Barritt, G. J.; Rychkov, G. Y.
Phospholipase C-γ1 is required for the activation of store-operated Ca^{2+} channels in liver cells, 405:269
Littlewood, T. D. *See* Kavurma, M. M.
Liu, H.-j. *See* Tan, Y.-r.
Liu, J. *See* Van, Q.
Liu, J.-G. *See* Lin, X.
Liu, L. *See* Heart, E.; Xiao, L.
Liu, M.
——; Wang, X.; Yin, C.; Zhang, Z.; Lin, Q.; Zhen, Y.; Huang, H.
Targeting TNF-α with a tetravalent mini-antibody TNF-TeAb, 406:237
Liu, M.-C. *See* Yasuda, S.
Liu, P. *See* Li, B.
Liu, P.-Y. *See* Huang, S.-M.
Liu, S. *See* Huang, J.-H.
Liu, Y.
——; Costantino, M. E.; Montoya-Durango, D.; Higashi, Y.; Darling, D. S.; Dean, D. C.
The zinc finger transcription factor ZFHX1A is linked to cell proliferation by Rb–E2F1, 408:79
——; Dai, S.; Beachy, R. N.
Role of the C-terminal domains of rice (*Oryza sativa* L.) bZIP proteins RF2a and RF2b in regulating transcription, 405:243
Liu, Y.-N.
——; Lai, Y.-T.; Chou, W.-I.; Chang, M. D.-T.; Lyu, P.-C.
Solution structure of family 21 carbohydrate-binding module from *Rhizopus oryzae* glucoamylase, 403:21
Lo, L.-C. *See* Wan, C.-F.
Lobel, P. *See* Dixit, S. S.
Logan, F. J.
——; Taylor, M. C.; Wilkinson, S. R.; Kaur, H.; Kelly, J. M.
The terminal step in vitamin C biosynthesis in *Trypanosoma cruzi* is mediated by a FMN-dependent galactonolactone oxidase, 407:419
Lomas, A. C.
——; Mellody, K. T.; Freeman, L. J.; Bax, D. V.; Shuttleworth, C. A.; Kielty, C. M.
Fibulin-5 binds human smooth-muscle cells through $\alpha5\beta1$ and $\alpha4\beta1$ integrins, but does not support receptor activation, 405:417
Lombardi, A. *See* Fraldi, A.
Loo, T. W. *See* Wang, Y.
Lopez, A. B.
——; Wang, C.; Huang, C. C.; Yaman, I.; Li, Y.; Chakravarty, K.; Johnson, P. F.; Chiang, C.-M.; Snider, M. D.; Wek, R. C.; Hatzoglou, M.
A feedback transcriptional mechanism controls the level of the arginine/lysine transporter cat-1 during amino acid starvation, 402:163
López, O. *See* Salceda, E.
López-Méndez, B. *See* Salceda, E.
Lorenzo, M. J. *See* Cerezo-Guisado, M. I.
Losert, W. *See* Luo, R.
Lothrop, A. P. *See* Wang, F.
Lou, P.-H.
——; Hansen, B. S.; Olsen, P. H.; Tullin, S.; Murphy, M. P.; Brand, M. D.
Mitochondrial uncouplers with an extraordinary dynamic range, 407:129
Lowe, K. C. *See* Iafelice, R.
Lu, B. *See* Van, Q.
Lu, D.
——; Chen, J.; Hai, T.
The regulation of ATF3 gene expression by mitogen-activated protein kinases, 401:559
Lu, S. C. *See* Ou, X.
——; Chang, S.-F.; Chen, H.-L.; Chou, Y.-Y.; Lan, Y.-H.; Chuang, C.-Y.; Yu, W.-H.; Chen, C.-L.
A novel role for Oct-2 in the lipopolysaccharide-mediated induction of resistin gene expression in RAW264.7 cells, 402:387
Lu, X.-F. *See* Fang, W.-K.
Lu, Y. *See* Li, S.
Lu, Y.-C. *See* Chao, M.-R.
Luc, E. *See* Heart, E.
Lucocq, J. M. *See* Zhang, Y.
Luft, F. C. *See* Muller, D. N.
Lukacik, P.
——; Keller, B.; Bunkoczi, G.; Kavanagh, K. L.; Lee, W. H.; Adamski, J.; Oppermann, U.
Structural and biochemical characterization of human orphan DHRS10 reveals a novel cytosolic enzyme with steroid dehydrogenase activity, 402:419; 403:615 (Correction)
Lukinius, A. *See* Braga, T.
Lummer, M. *See* Brüning, M.
Luo, B. *See* Yeh, T.-Y. J.
Luo, R.
——; Ahvazi, B.; Amariei, D.; Shroder, D.; Burrola, B.; Losert, W.; Randazzo, P. A.
Kinetic analysis of GTP hydrolysis catalysed by the Arf1-GTP–ASAP1 complex, 402:439; 407:471 (Correction)
Luo, W. *See* Wang, Y.
Lupidi, G. *See* Monaco, S.
Lyngstadaas, S. P. *See* Zou, Y.
Lynham, S. F. *See* Schuster, B.
Lytton, J.
——; Na^+/Ca^{2+} exchangers: three mammalian gene families control Ca^{2+} transport, 406:365
Lyu, P.-C. *See* Liu, Y.-N.

Ma, J. *See* Hong, M.
Ma, Y. *See* Timmer, J. C.
Määttä, J. A. E. *See* Helppolainen, S. H.
Mabrouk, K. *See* Altafaj, X.
Maccario, H.
——; Perera, N. M.; Davidson, L.; Downes, C. P.; Leslie, N. R.
PTEN is destabilized by phosphorylation on Thr^{366}, 405:439
Macdonald, A. *See* McCoy, C. E.

© 2008 Biochemical Society

MacDonald, C. C. *See* Monarez, R. R.
MacGillivray, R. T. A. *See* Wang, F.
Machado, M. F. M.
——; Rioli, V.; Dalio, F. M.; Castro, L. M.; Juliano, M. A.; Tersariol, I. L.; Ferro, E. S.; Juliano, L.; Oliveira, V.
The role of Tyr^{605} and Ala^{607} of thimet oligopeptidase and Tyr^{606} and Gly^{608} of neurolysin in substrate hydrolysis and inhibitor binding, 404:279
Macheroux, P. *See* Fitzpatrick, T. B.
Macías, M. J.
——; Teijido, O.; Zifarelli, G.; Martin, P.; Ramirez-Espain, X.; Zorzano, A.; Palacín, M.; Pusch, M.; Estévez, R.
Myotonia-related mutations in the distal C-terminus of ClC-1 and ClC-0 chloride channels affect the structure of a poly-proline helix, 403:79
Mackenzie, B.
——; Takanaga, H.; Hubert, N.; Rolfs, A.; Hediger, M. A.
Functional properties of multiple isoforms of human divalent metal-ion transporter 1 (DMT1), 403:59
Mackey, M. R. *See* Sosinsky, G. E.
Mackintosh, C. *See* Geraghty, K. M.
Macphee, C. E. *See* Ecroyd, H.
MacPherson, L. *See* Matthews, J.
Maeda, I. *See* Wachi, H.
Magnuson, M. A. *See* Pearce, L. R.
Magretova, N. N. *See* Jämsen, J.
Maher, J. M. *See* Zhang, J.
Makarewich, C. A. *See* Biswas, C.
Makise, M.
——; Takahashi, N.; Matsuda, K.; Yamairi, F.; Suzuki, K.; Tsuchiya, T.; Mizushima, T.
Mechanism for the degradation of origin recognition complex containing Orc5p with a defective Walker A motif and its suppression by over-production of Orc4p in yeast cells, 402:397
Malaga-Trillo, E. *See* Solis, G. P.
Malakooti, J. *See* Pearse, I.
Malerba, F.
——; Bellelli, A.; Giorgi, A.; Bossa, F.; Contestabile, R.
The mechanism of addition of pyridoxal 5′-phosphate to *Escherichia coli* apo-serine hydroxymethyltransferase, 404:477
Maley, F. *See* Cieśla, J.
Malingré, H. E. M. *See* van den Berghe, P. V. E.
Mallampalli, R. K. *See* Agassandian, M.
Malle, E. *See* Marsche, G.
Mamin, A. *See* Gauthier, B. R.
Manabe, Y. *See* Koh, H.-J.
Mancuso, C. *See* Martin, G.
Mandon, G. *See* Mousson de Camaret, B.
Manganelli, V. *See* Barbat, C.
Manganiello, V. C. *See* Ahmad, F.
Mangili, O. C. *See* da Silveira, R. B.
Manjula, B. N. *See* Acharya, S. A.; Hu, T.
Manning, D. R. *See* Riobo, N. A.
Manser, E. *See* Weisz Hubsman, M.
Mantle, T. J. *See* Franklin, E.
Manzoni, M. *See* Zanchetti, G.
——; Colombi, P.; Papini, N.; Rubaga, L.; Tiso, N.; Preti, A.; Venerando, B.; Tettamanti, G.; Bresciani, R.; Argenton, F.; Borsani, G.; Monti, E.
Molecular cloning and biochemical characterization of sialidases from zebrafish (*Danio rerio*), 408:395
Marasa, B. S. *See* Xiao, L.
Marchant, J. S. *See* Zhang, D.
Maret, W. *See* Krężel, A.
Mariette, C. *See* Piessen, G.
Marijanovic, Z.
——; Ragimbeau, J.; Van der Heyden, J.; Uzé, G.; Pellegrini, S.
Comparable potency of IFNα2 and IFNβ on immediate JAK/STAT activation but differential down-regulation of IFNAR2, 407:141
Marini, S. *See* Monaco, S.
Markovic, M. *See* Muller, D. N.
Marsche, G.
——; Frank, S.; Raynes, J. G.; Kozarsky, K. F.; Sattler, W.; Malle, E.
The lipidation status of acute-phase protein serum amyloid A determines cholesterol mobilization via scavenger receptor class B, type I, 402:117
Marshall, E. *See* Sheldrick, E. L. R.
Martin, G.
——; Ferrier, B.; Conjard, A.; Martin, M.; Nazaret, R.; Boghossian, M.; Saadé, F.; Mancuso, C.; Durozard, D.; Baverel, G.
Glutamine gluconeogenesis in the small intestine of 72 h-fasted adult rats is undetectable, 401:465
Martin, M. *See* Martin, G.
Martin, P. *See* Macías, M. J.
Martineau, V. *See* Dardente, H.
Martinez, E. *See* Faiola, F.
Martinez-Irujo, J. J. *See* Cruchaga, C.
Martino, V. S. *See* Cruchaga, C.
Marton, L. J. *See* Carruthers, L. M.
Maruyama, A. *See* Zhang, J.
Maruyama, J.-i. *See* Juvvadi, P. R.
Marí, F. *See* Möller, C.
Maskell, D. J. *See* Westman, E. L.
Masmoudi, A. *See* Hnia, K.
Mason, A. B. *See* Wang, F.
Mason, R. M. *See* Wahab, N.
Mason, R. S. *See* Lee, H. J.
Masoumi, A. *See* Heinemann, I. U.
Massa, C.
——; Clausen, M. H.; Stojan, J.; Lamba, D.; Campa, C.
Study of the mode of action of a polygalacturonase from the phytopathogen *Burkholderia cepacia*, 407:207
Mast, A. E. *See* Timmer, J. C.
Masters, C. L. *See* Caragounis, A.
Masulli, M. *See* Federici, L.
Mathews, P. M. *See* Dorval, V.
Mathioudakis, N. *See* Ehrismann, D.
Mathur, S. N. *See* Agassandian, M.
Mato, J. M. *See* Ou, X.
Matsuda, K. *See* Makise, M.
Matsuda, T. *See* Miyoshi, M.; Tomita, M.
Matsumura, I. *See* Greene, D. N.
Matsuo, M. *See* Kimura, Y.
Matsuo, S.
——; Yamazaki, S.; Takeshige, K.; Muta, T.
Crucial roles of binding sites for NF-κB and C/EBPs in IκB-ζ-mediated transcriptional activation, 405:605
Matsushita, K. *See* Zheng, L.
Matthews, J.
——; Wihlén, B.; Heldring, N.; MacPherson, L.; Helguero, L.; Treuter, E.; Haldosén, L.-A.; Gustafsson, J.-Å.
Co-planar 3,3′,4,4′,5-pentachlorinated biphenyl and non-co-planar 2,2′,4,6,6′-pentachlorinated biphenyl differentially induce recruitment of oestrogen receptor α to aryl hydrocarbon receptor target genes, 406:343
Maurizot, J.-C. *See* Gillard, N.
Mawson, A. *See* Sadowski, M.
Mayençon, M. *See* Mousson de Camaret, B.
Mayr, G. W. *See* Brehm, M. A.
Mazerolles, F. *See* Barbat, C.
Mazurek, S. *See* Nafz, J.
Mazzella, M. J. *See* Dorval, V.
McBryant, S. J. *See* Robinson, M. M.
McBurney, M. W. *See* Ghosh, H. S.
McCarter, J. P. *See* Brendza, K. M.
McCarthy, J. B. *See* Iida, J.
McCarty, O. J. T. *See* Pearce, A. C.
McClard, R. W. *See* Bateman, R. L.
McCoy, C. E.
——; Macdonald, A.; Morrice, N. A.; Campbell, D. G.; Deak, M.; Toth, R.; McIlrath, J.; Arthur, J. S. C.
Identification of novel phosphorylation sites in MSK1 by precursor ion scanning MS, 402:491
McDonald, F. J. *See* Wiemuth, D.
McIlrath, J. *See* McCoy, C. E.
McLaird, M. *See* Brendza, K. M.
McLauchlan, H. *See* Bain, J.
Mcnally, D. J. *See* Westman, E. L.
McNiven, T. N. *See* Rees, M. D.
McPherson, M. *See* Pereira, M. M. C.
McRobbie, I. *See* Just, V. J.
Mecham, R. P. *See* Wachi, H.
Meehan, S. *See* Ecroyd, H.
Mei, J. *See* Albertsson, P.-A.; Albertsson, P.-Å.
Meinl, W. *See* Teubner, W.
Melchers, J. *See* Schlecker, T.
Mellody, K. T. *See* Lomas, A. C.
Meng, D. *See* Baillie, G. S.
Mentele, R. *See* Ries, C.
Mercer, J. *See* Kavurma, M. M.
Mercer, J. F. B. *See* Cater, M. A.; Hardman, B.; Hung, Y. H.
Merkx, M. *See* van den Berghe, P. V. E.
Messerschmidt, A. *See* Heinemann, I. U.
Metcalfe, C. L.
——; Daltrop, O.; Ferguson, S. J.; Raven, E. L.
Tuning the formation of a covalent haem–protein link by selection of reductive or oxidative conditions as exemplified by ascorbate peroxidase, 408:355
Metz, A. *See* Laudet, B.
Metzen, E.
Enzyme substrate recognition in oxygen sensing: how the HIF trap snaps, 408:e5 (online-only commentary on Villar, D.)
Meur, G. *See* Budatha, M.
Meyer, T. *See* Voronova, A.
Meyer-Klaucke, W. *See* Voronova, A.
Mi, S. *See* Cong, L.
Miakotina, O. L. *See* Agassandian, M.
Michaelis, E. K. *See* Agbas, A.
Michalczyk, A. *See* Hardman, B.
Michalek, M. *See* Bruhn, O.
Michan, S.
——; Sinclair, D.
Sirtuins in mammals: insights into their biological function, 404:1
Michel, G. *See* Guibet, M.
Michelangeli, F. *See* Ogunbayo, O. A.
Michiels, C. *See* Tomita, M.
Miczak, A. *See* Zeller, M.-F.
Middelhaufe, S.
——; Garzia, L.; Ohndorf, U.-M.; Kachholz, B.; Zollo, M.; Steegborn, C.

© 2008 Biochemical Society

Domain mapping on the human metastasis regulator protein h-Prune reveals a C-terminal dimerization domain, 407:199
Mieulet, V. *See* Findlay, G. M.
Miinea, C. P. *See* Roach, W. G.
Milewski, S. *See* Olchowy, J.
Miller, J. *See* Arneson, L. S.
Miller, W. L. *See* Westman, E. L.
Milligan, G. *See* Baillie, G. S.
Minami, R.
——; Shimada, M.; Yokosawa, H.; Kawahara, H.
Scythe regulates apoptosis through modulating ubiquitin-mediated proteolysis of the *Xenopus* elongation factor XEF1AO, 405:495
Minkenberg, J. *See* Arlt, A.
Miranda, K. *See* Fang, J.
Missiaen, L. *See* Devogelaere, B.
Mix, H. *See* Xu, X.-M.
Miyata, M. *See* Ohtani, N.
Miyoshi, M.
——; Okajima, T.; Matsuda, T.; Fukuda, M. N.; Nadano, D.
Bystin in human cancer cells: intracellular localization and function in ribosome biogenesis, 404:373
Mizuno, H. *See* Gopinath, S. C. B.
Mizushima, T. *See* Hoshino, T.; Makise, M.
Mizutani, A. *See* Song, T.
Mo, H. *See* Van Damme, E. J. M.
Mocan, I.
——; Georgescauld, F.; Gonin, P.; Thoraval, D.; Cervoni, L.; Giartosio, A.; Dabernat-Arnaud, S.; Crouzet, M.; Lacombe, M.-L.; Lascu, I.
Protein phosphorylation corrects the folding defect of the neuroblastoma (S120G) mutant of human nucleoside diphosphate kinase A/Nm23-H1, 403:149
Moens, L. *See* Nicolis, S.
Moini, H. *See* Iñarrea, P.
Mølgaard, A.
——; Arnau, J.; Lauritzen, C.; Larsen, S.; Petersen, G.; Pedersen, J.
The crystal structure of human dipeptidyl peptidase I (cathepsin C) in complex with the inhibitor Gly-Phe-CHN_2, 401:645
Möller, C.
——; Marí, F.
A vasopressin/oxytocin-related conopeptide with γ-carboxyglutamate at position 8, 404:413
Monaco, S.
——; Gioia, M.; Rodriguez, J.; Fasciglione, G. F.; Di Pierro, D.; Lupidi, G.; Krippahl, L.; Marini, S.; Coletta, M.
Modulation of the proteolytic activity of matrix metalloproteinase-2 (gelatinase A) on fibrinogen, 402:503
Monard, D. *See* Muhl, L.
Monarez, R. R.
——; MacDonald, C. C.; Dass, B.
Polyadenylation proteins CstF-64 and τCstF-64 exhibit differential binding affinities for RNA polymers, 401:651
Monnier, V. M. *See* Sell, D. R.
Montanier, C. *See* Cicortas Gunnarsson, L.
Monterrat, C. *See* Grise, F.
Monti, E. *See* Manzoni, M.; Zanchetti, G.
Montioli, R. *See* Cellini, B.
Montori-Grau, M.
——; Guitart, M.; Lerin, C.; Andreu, A. L.; Newgard, C. B.; García-Martínez, C.; Gómez-Foix, A. M.
Expression and glycogenic effect of glycogen-targeting protein phosphatase 1 regulatory subunit G_L in cultured human muscle, 405:107, 405:625 (Correction)
Montoya-Durango, D. *See* Liu, Y.
Monzani, E. *See* Nicolis, S.
Mooney, S. M. *See* Huang, J.
Moore, A. L. *See* Crichton, P. G.
Moore, E. *See* Ishigami, S.
Moore, K. L. *See* Nissley, D. V.
Moore, R. *See* Kodama, S.
Moorhead, G. B. *See* Geraghty, K. M.
Moran, Y.
——; Kahn, R.; Cohen, L.; Gur, M.; Karbat, I.; Gordon, D.; Gurevitz, M.
Molecular analysis of the sea anemone toxin Av3 reveals selectivity to insects and demonstrates the heterogeneity of receptor site-3 on voltage-gated Na^+ channels, 406:41
Moreth, K.
——; Riester, D.; Hildmann, C.; Hempel, R.; Wegener, D.; Schober, A.; Schwienhorst, A.
An active site tyrosine residue is essential for amidohydrolase but not for esterase activity of a class 2 histone deacetylase-like bacterial enzyme, 401:659
Morgan, A. J.
——; Galione, A.
NAADP induces pH changes in the lumen of acidic Ca^{2+} stores, 402:301
Mori, N. *See* Tomita, M.
Morita, K. *See* Sogawa, C.
Moriyon, I. *See* Andrä, J.
Morley, S. J. *See* Cook, S. J.
Mornet, D. *See* Hnia, K.
Morrice, N. A. *See* Geraghty, K. M.; McCoy, C. E.
Morris, M. *See* Joshi, B.
Morrison, C. *See* Iida, J.
Motohashi, H. *See* Zhang, J.
Moulis, J.-M. *See* Dycke, C.
Mousson de Camaret, B.
——; Taanman, J.-W.; Padet, S.; Chassagne, M.; Mayençon, M.; Clerc-Renaud, P.; Mandon, G.; Zabot, M.-T.; Lachaux, A.; Bozon, D.
Kinetic properties of mutant deoxyguanosine kinase in a case of reversible hepatic mtDNA depletion, 402:377
Muhl, L. *See* Shibamiya, A.
——; Nykjaer, A.; Wygrecka, M.; Monard, D.; Preissner, K. T.; Kanse, S. M.
Inhibition of PDGF-BB by Factor VII-activating protease (FSAP) is neutralized by protease nexin-1, and the FSAP–inhibitor complexes are internalized via LRP, 404:191
Mukherji, A.
——; Janbandhu, V. C.; Kumar, V.
HBx-dependent cell cycle deregulation involves interaction with cyclin E/A–cdk2 complex and destabilization of $p27^{Kip1}$, 401:247
Mukhopadhyay, C. K. *See* Das, D.
Mullen, R. T. *See* Henderson, M. P. A.
Muller, D. N.
——; Schmidt, C.; Barbosa-Sicard, E.; Wellner, M.; Gross, V.; Hercule, H.; Markovic, M.; Honeck, H.; Luft, F. C.; Schunck, W.-H.
Mouse Cyp4a isoforms: enzymatic properties, gender- and strain-specific expression, and role in renal 20-hydroxyeicosatetraenoic acid formation, 403:109
Mullershausen, F. *See* Russwurm, M.
Mulloy, B. *See* Alfano, I.
Mummery, R. S. *See* Alfano, I.
Mun, H.-C. *See* Lee, H. J.
Munafò, D. B.
——; Johnson, J. L.; Ellis, B. A.; Rutschmann, S.; Beutler, B.; Catz, S. D.
Rab27a is a key component of the secretory machinery of azurophilic granules in granulocytes, 402:229
Munafo, D. B. *See* Pacquelet, S.
Munderloh, C. *See* Solis, G. P.
Munshi, H. G. *See* Wu, Y. I.
Murayama, T. *See* Bannister, M. L.
——; Walczak, R.; Caron, S.; Duhem, C.; Vidal, V.; Darteil, R.; Staels, B.
The farnesoid X receptor induces fetuin-B gene expression in human hepatocytes, 407:461
——; Oba, T.; Hara, H.; Wakebe, K.; Ikemoto, N.; Ogawa, Y.
Postulated role of interdomain interaction between regions 1 and 2 within type 1 ryanodine receptor in the pathogenesis of porcine malignant hyperthermia, 402:349
Murillo, M. M.
——; Carmona-Cuenca, I.; del Castillo, G.; Ortiz, C.; Roncero, C.; Sánchez, A.; Fernández, M.; Fabregat, I.
Activation of NADPH oxidase by transforming growth factor-β in hepatocytes mediates up-regulation of epidermal growth factor receptor ligands through a nuclear factor-κB-dependent mechanism, 405:251
Murphy, E. C. *See* Hooks, M. A.
Murphy, M. P. *See* Lou, P.-H.
Murphy, R. C.
——; Gijón, M. A.
Biosynthesis and metabolism of leukotrienes, 405:379, 406:527 (Correction)
Murray, E. J. *See* Pearse, I.
Murthy, K. S. *See* Song, Y.
Murugappan, S. *See* Garcia, A.
Mustafa, F. *See* Hassan, A. H.
Muta, T. *See* Matsuo, S.
Myers, J. C.
——; Amenta, P. S.; Dion, A. S.; Sciancalepore, J. P.; Nagaswami, C.; Weisel, J. W.; Yurchenco, P. D.
The molecular structure of human tissue type XV presents a unique conformation among the collagens, 404:535 (*See* Kadler, K. for online-only commentary)

Nadano, D. *See* Miyoshi, M.
Nader, H. B. *See* da Silveira, R. B.
Nafz, J.
——; De-Castro Arce, J.; Fleig, V.; Patzelt, A.; Mazurek, S.; Rösl, F.
Interference with energy metabolism by 5-aminoimidazole-4-carboxamide-1-β-D-ribofuranoside induces HPV suppression in cervical carcinoma cells and apoptosis in the absence of LKB1, 403:501
Naganawa, A. *See* Ohta, K.
Nagase, H. *See* Ries, C.
Nagaswami, C. *See* Myers, J. C.
Nagatsuka, Y. *See* Yamazaki, Y.
Nair, D. G.
——; Fry, B. G.; Alewood, P.; Kumar, P. P.; Kini, R. M.
Antimicrobial activity of omwaprin, a new member of the waprin family of snake venom proteins, 402:93
Nakagawa, Y. *See* Hattori, H.
Nakamura, Y. *See* Senda, M.

© 2008 Biochemical Society

Nakamura-Tsuruta, S. *See* Van Damme, E. J. M.
Nakano, Y.
——; Banfi, B.; Jesaitis, A. J.; Dinauer, M. C.; Allen, L.-A. H.; Nauseef, W. M.
Critical roles for p22^{phox} in the structural maturation and subcellular targeting of Nox3, 403:97
Nakase, I. *See* Fretz, M. M.
Nakashima, M. *See* Zheng, L.
Nakatomi, A. *See* Graidist, P.
Nakaya, T. *See* Hoshino, T.
Nakayama, K.
——; Gazdoiu, S.; Abraham, R.; Pan, Z.-Q.; Ronai, Z.
Hypoxia-induced assembly of prolyl hydroxylase PHD3 into complexes: implications for its activity and susceptibility for degradation by the E3 ligase Siah2, 401:217
Nakazawa, J. *See* Wachi, H.
Nakphaichit, M. *See* Opassiri, R.
Nalaskowski, M. M. *See* Brehm, M. A.
Naldini, L. *See* Fraldi, A.
Namiki, H. *See* Takahashi, H.
Narayanan, B. *See* Kumar, A.
Naren, A. *See* Sheth, P.
Närvänen, A. *See* Helppolainen, S. H.
Nasheuer, H.-P. *See* Taneja, P.
Nauseef, W. M. *See* Nakano, Y.
Navarro, M. *See* Ferrer, B.
Nazaret, R. *See* Martin, G.
Neefjes, J. J. *See* Ono, N.
Neergaard, T. B. F. *See* Feddersen, S.
Negishi, M. *See* Kodama, S.
Nelson, B. *See* Sahni, J.
Nemec, A. A. *See* O'Hara, K. A.
Newell, F. S. *See* Sapkota, G. P.
Newgard, C. B. *See* Montori-Grau, M.
Newman, D. K. *See* Rathore, V. B.
Newman, P. J. *See* Rathore, V. B.
Ng, B. *See* Ghosh, H. S.
Ng, J. *See* Iida, J.
Ngan, L. *See* Sosinsky, G. E.
Ngo, B. *See* Tang, Z.
Nguyen, T. *See* Litjens, T.
Nicholls, P. *See* Silaghi-Dumitrescu, R.
Nichols, R. J. *See* Jaleel, M.
Nicolis, S.
——; Monzani, E.; Ciaccio, C.; Ascenzi, P.; Moens, L.; Casella, L.
Reactivity and endogenous modification by nitrite and hydrogen peroxide: does human neuroglobin act only as a scavenger?, 407:89
Nidetzky, B. *See* Klimacek, M.; Schwarz, A.
Niemirowicz, G.
——; Parussini, F.; Agüero, F.; Cazzulo, J. J.
Two metallocarboxypeptidases from the protozoan *Trypanosoma cruzi* belong to the M32 family, found so far only in prokaryotes, 401:399 (*See* Rawlings, N. D. for online-only commentary)
Nijhawan, K. *See* Spite, M.
Nimmo, G. A. *See* Chen, Z.-H.
Nimmo, H. G. *See* Chen, Z.-H.
Nishida, T.
——; Terashima, M.; Fukami, K.; Yamada, Y.
PIASy controls ubiquitination-dependent proteasomal degradation of Ets-1, 405:481
Nishihara, T. *See* Ohta, K.
Nishikawa, J.-i. *See* Ohta, K.
Nishikawa, K. *See* Zhang, J.
Nissley, D. V.
——; Radzio, J.; Ambrose, Z.; Sheen, C.-W.; Hamamouch, N.; Moore, K. L.; Tachedjian, G.; Sluis-Cremer, N.
Characterization of novel non-nucleoside reverse transcriptase (RT) inhibitor resistance mutations at residues 132 and 135 in the 51 kDa subunit of HIV-1 RT, 404:151
Niu, L. *See* Yan, D.
Nobes, C. D. *See* Groeger, G.
Nogi, T. *See* Zhang, D.
Nonaka, R. *See* Wachi, H.
Nordberg Karlsson, E. N. *See* Cicortas Gunnarsson, L.
Nordlund, H. R. *See* Helppolainen, S. H.
Norman, M. *See* Chan, C. W.
Northup, J. K. *See* Sainz, E.
Nübel, T. *See* Emre, Y.
Numazawa, S. *See* Shindo, S.
Nunomura, K. *See* Zhao, J.
Nurminen, K. P. *See* Helppolainen, S. H.
Nusco, E. *See* Fraldi, A.
Nykjaer, A. *See* Muhl, L.

Oba, T. *See* Murayama, T.
Oesterhelt, C. *See* Schilling, S.
O'Farrell, P. A.
——; Joshua-Tor, L.
Mutagenesis and crystallographic studies of the catalytic residues of the papain family protease bleomycin hydrolase: new insights into active-site structure, 401:421
Ogawa, Y. *See* Murayama, T.
Ogiso, M. *See* Senda, M.
Ogunbayo, O. A.
——; Michelangeli, F.
The widely utilized brominated flame retardant tetrabromobisphenol A (TBBPA) is a potent inhibitor of the SERCA Ca^{2+} pump, 408:407
O'Hara, K. A.
——; Vaghjiani, R. J.; Nemec, A. A.; Klei, L. R.; Barchowsky, A.
Cr(VI)-stimulated STAT3 tyrosine phosphorylation and nuclear translocation in human airway epithelial cells requires Lck, 402:261
Öhman, A. *See* Olofsson, A.
Ohigashi, M. *See* Ohta, K.
Ohlin, M. *See* Cicortas Gunnarsson, L.
Ohndorf, U.-M. *See* Middelhaufe, S.
Ohradanova, A.
——; Vullo, D.; Kopacek, J.; Temperini, C.; Betakova, T.; Pastorekova, S.; Pastorek, J.; Supuran, C. T.
Reconstitution of carbonic anhydrase activity of the cell-surface-binding protein of vaccinia virus, 407:61
Ohshiro, K. *See* Tomita, M.
Ohta, K.
——; Ohigashi, M.; Naganawa, A.; Ikeda, H.; Sakai, M.; Nishikawa, J.-i.; Imagawa, M.; Osada, S.; Nishihara, T.
Histone acetyltransferase MOZ acts as a co-activator of Nrf2–MafK and induces tumour marker gene expression during hepatocarcinogenesis, 402:559
Ohta, T. *See* Zhang, J.
Ohtani, N.
——; Miyata, M.
Identification of a novel nucleoside triphosphatase from *Mycoplasma mobile*: a prime candidate motor for gliding motility, 403:71
Okada, F. *See* Iuchi, Y.
Okada, M. *See* Rathore, V. B.
Okajima, T. *See* Miyoshi, M.
Okamoto, C. T. *See* Zou, Y.
Okamoto, K. *See* Wachi, H.
Okawa, Y. *See* Shibata, N.
Okudaira, T. *See* Tomita, M.
Okuura, Y. *See* Izumikawa, T.
Olchowy, J.
——; Gabriel, I.; Milewski, S.
Functional domains and interdomain communication in *Candida albicans* glucosamine-6-phosphate synthase, 404:121
Olczak, M. *See* Rapala-Kozik, M.
Oliveira, V. *See* Machado, M. F. M.
Olkkonen, V. M. *See* Suchanek, M.
Ollikka, P. *See* Jakobsson, E.
Olofsson, A.
——; Lindhagen-Persson, M.; Sauer-Eriksson, A. E.; Öhman, A.
Amide solvent protection analysis demonstrates that amyloid-β(1–40) and amyloid-β(1–42) form different fibrillar structures under identical conditions, 404:63
Olsen, O. H. *See* Larsen, K. S.
Olsen, P. H. *See* Lou, P.-H.
Ongenaert, M. *See* Van Damme, E. J. M.
Onkoksoong, T. *See* Opassiri, R.
Ono, N.
——; van der Heijden, I.; Scheffer, G. L.; van de Wetering, K.; van Deemter, E.; de Haas, M.; Boerke, A.; Gadella, B. M.; de Rooij, D. G.; Neefjes, J. J.; Groothuis, T. A. M.; Oomen, L.; Brocks, L.; Ishikawa, T.; Borst, P.
Multidrug resistance-associated protein 9 (ABCC12) is present in mouse and boar sperm, 406:31
Ono, Y. *See* Senda, M.
Onoda, T. *See* Iuchi, Y.
Onuma, K. *See* Iuchi, Y.
Oomen, L. *See* Ono, N.
Opassiri, R.
——; Pomthong, B.; Akiyama, T.; Nakphaichit, M.; Onkoksoong, T.; Ketudat Cairns, M.; Ketudat Cairns, J. R.
A stress-induced rice (*Oryza sativa* L.) β-glucosidase represents a new subfamily of glycosyl hydrolase family 5 containing a fascin-like domain, 408:241
Oppermann, U. *See* Lukacik, P.
Ortiz, C. *See* Murillo, M. M.
Osada, S. *See* Ohta, K.
O'Shea, J. J. *See* Ramos, H. L.
Oshima, S. *See* Senda, M.
Osman, W. *See* Jakobsson, T.
Østergaard, H. *See* Larsen, K. S.
Ostler, E. L. *See* Boucher, G.
Ostrovsky, O. *See* Biswas, C.
Ostrowska, K. *See* Rapala-Kozik, M.
O'Sullivan, D. B. D.
——; Jones, C. E.; Abdelraheim, S. R.; Thompsett, A. R.; Brazier, M. W.; Toms, H.; Brown, D. R.; Viles, J. H.
NMR characterization of the pH 4 β-intermediate of the prion protein: the N-terminal half of the protein remains unstructured and retains a high degree of flexibility, 401:533
Othman, S. *See* Hassan, A. H.
Ou, R. *See* Wang, S.-C.
Ou, X.
——; Yang, H.; Ramani, K.; Ara, A. I.; Chen, Hui; Mato, J. M.; Lu, S. C.

© 2008 Biochemical Society

Inhibition of human betaine–homocysteine methyltransferase expression by *S*-adenosylmethionine and methylthioadenosine, 401:87
Overall, C. M. *See* Iida, J.
Oxenham, S. K. *See* Browne, G. J.
Oya, J. *See* Tang, Z.
Oyesanya, R. *See* Song, Y.

Paakkarinen, V. *See* Sirpiö, S.
Pace, S. M. *See* Kimura, T.
Pacquelet, S.
——; Johnson, J. L.; Ellis, B. A.; Brzezinska, A. A.; Lane, W. S.; Munafo, D. B.; Catz, S. D.
Cross-talk between IRAK-4 and the NADPH oxidase, 403:451
Padet, S. *See* Mousson de Camaret, B.
Page, M. I. *See* Badarau, A.
Paiardini, A. *See* Cellini, B.
Paik, H.-D. *See* Park, Y.-S.
Paine, M. L. *See* Zou, Y.
Palacín, M. *See* Macías, M. J.
Palavalli, L. H. *See* Brendza, K. M.
Palumaa, P. *See* Voronova, A.
Pan, S. *See* DeJournett, R. E.; Faiola, F.
Pan, T. *See* Li, C.
Pan, Y.-X.
——; Chen, Hong; Thiaville, M. M.; Kilberg, M. S.
Activation of the *ATF3* gene through a co-ordinated amino acid-sensing response programme that controls transcriptional regulation of responsive genes following amino acid limitation, 401:299
Pan, Z. *See* Hong, M.
Pan, Z.-Q. *See* Nakayama, K.
Pantopoulos, K. *See* Dycke, C.
Papini, N. *See* Manzoni, M.
Pariente, J. A. *See* Jardin, I.
Park, E. A. *See* Sadana, P.
Park, H. I. *See* Lee, S.
Park, K.-H.
——; Berrier, C.; Lebaupain, F.; Pucci, B.; Popot, J.-L.; Ghazi, A.; Zito, F.
Fluorinated and hemifluorinated surfactants as alternatives to detergents for membrane protein cell-free synthesis, 403:183
Park, M. J.
——; Kong, H. J.; Kim, H. Y.; Kim, H. H.; Kim, J. H.; Cheong, J. H.
Transcriptional repression of the gluconeogenic gene *PEPCK* by the orphan nuclear receptor SHP through inhibitory interaction with C/EBPα, 402:567
Park, Y.-S.
——; Kim, J.-H.; Cho, J.-H.; Chang, H.-I.; Kim, S.-W.; Paik, H.-D.; Kang, C.-W.; Kim, T.-H.; Sung, H.-C.; Yun, C.-W.
Physical and functional interaction of FgFtr1–FgFet1 and FgFtr2–FgFet2 is required for iron uptake in *Fusarium graminearum*, 408:97
Parker, J. *See* Pereira, M. M. C.
Parsons, L. H. *See* Ferrer, B.
Partovi, A. *See* Johnson, J. E.
Parussini, F. *See* Niemirowicz, G.
Parys, J. B. *See* Devogelaere, B.
Paschinger, K. *See* Rendić, D.
Passaniti, A. *See* Xiao, L.
Pastorek, J. *See* Ohradanova, A.
Pastorekova, S. *See* Ohradanova, A.
Patel, P. *See* Erlemann, K.-R.
Patel, S. *See* Beresford, N.
Paterson, M. A.
——; Horvath, A. J.; Pike, R. N.; Coughlin, P. B.
Molecular characterization of centerin, a germinal centre cell serpin, 405:489
Patzelt, A. *See* Nafz, J.
Paul, S. *See* Bruhn, O.
Paul, T.
——; Li, S.; Khurana, S.; Leleiko, N. S.; Walsh, M. J.
The epigenetic signature of *CFTR* expression is co-ordinated via chromatin acetylation through a complex intronic element, 408:317
Pawłowski, R. *See* Pearce, L. R.
Pearce, A. C.
——; McCarty, O. J. T.; Calaminus, S. D. J.; Vigorito, E.; Turner, M.; Watson, S. P.
Vav family proteins are required for optimal regulation of PLCγ2 by integrin αIIbβ3, 401:753
Pearse, I.
——; Zhu, Y. X.; Murray, E. J.; Dudeja, P. K.; Ramaswamy, K.; Malakooti, J.
Sp1 and Sp3 control constitutive expression of the human NHE2 promoter by interactions with the proximal promoter and the transcription initiation site, 407:101
Pearce, L. R.
——; Huang, X.; Boudeau, J.; Pawłowski, R.; Wullschleger, S.; Deak, M.; Ibrahim, A. F. M.; Gourlay, R.; Magnuson, M. A.; Alessi, D. R.
Identification of Protor as a novel Rictor-binding component of mTOR complex-2, 405:513
Pedersen, J. *See* Mølgaard, A.
Peelman, F. *See* Lavens, D.
Peggie, M. *See* Windheim, M.
Pejler, G. *See* Braga, T.
Pellegrini, S. *See* Marijanovic, Z.
Peluffo, G. *See* Piacenza, L.
Pendleton, M. R. *See* Zhang, D.
Peng, B. *See* Li, S.
Peng, M.-S. *See* Wang, H.
Penning, N. A. *See* Fretz, M. M.
Pepe, S. *See* Fraldi, A.
Peran, M. *See* Burke, Z. D.
Pereira, M. M. C.
——; Parker, J.; Stratford, F. L. L.; McPherson, M.; Dormer, R. L.
Activation mechanisms for the cystic fibrosis transmembrane conductance regulator protein involve direct binding of cAMP, 405:181
Perera, N. M. *See* Maccario, H.
Pérez-Castells, J. *See* Salceda, E.
Periyannan, G. R. *See* Kumar, A.
Perreault, J.-P. *See* Lévesque, D.
Perrella, M. *See* Iafelice, R.
Persson, L. *See* Dufe, V. T.
Pessah, I. N. *See* Shahbazzadeh, D.
Peterson, C. L. *See* Carruthers, L. M.
Petersen, G. *See* Mølgaard, A.
Peterson, M. E.
——; Daniel, R. M.; Danson, M. J.; Eisenthal, R.
The dependence of enzyme activity on temperature: determination and validation of parameters, 402:331, 403:615 (Correction)
Petrash, J. M. *See* Spite, M.
Peumans, W. J. *See* Van Damme, E. J. M.
Philippe, J. *See* Gauthier, B. R.
Phillips, I. R. *See* Shephard, E. A.
Philpott, A. *See* Vosper, J. M. D.
Phongdara, A. *See* Graidist, P.
Piacenza, L.
——; Irigoín, F.; Alvarez, M. N.; Peluffo, G.; Taylor, M. C.; Kelly, J. M.; Wilkinson, S. R.; Radi, R.
Mitochondrial superoxide radicals mediate programmed cell death in *Trypanosoma cruzi*: cytoprotective action of mitochondrial iron superoxide dismutase overexpression, 403:323
Picard-Jean, F.
——; Bougie, I.; Bisaillon, M.
Characterization of the DNA- and dNTP-binding activities of the human cytomegalovirus DNA polymerase catalytic subunit UL54, 407:331
Piessen, G.
——; Jonckheere, N.; Vincent, A.; Hémon, B.; Ducourouble, M.-P.; Copin, M.-C.; Mariette, C.; Van Seuningen, I.
Regulation of the human mucin MUC4 by taurodeoxycholic and taurochenodeoxycholic bile acids in oesophageal cancer cells is mediated by hepatocyte nuclear factor 1α, 402:81
Pike, R. N. *See* Paterson, M. A.
Piomelli, D. *See* Ferrer, B.
Pirola, L. *See* Fröjdö, S.
Piromjitpong, J.
——; Wongsantichon, J.; Ketterman, A. J.
Differences in the subunit interface residues of alternatively spliced glutathione transferases affects catalytic and structural functions, 401:635
Pisani, F. M. *See* De Felice, M.
Pisciotta, J. M.
——; Coppens, I.; Tripathi, A. K.; Scholl, P. F.; Shuman, J.; Bajad, S.; Shulaev, V.; Sullivan, Jr, D. J.
The role of neutral lipid nanospheres in *Plasmodium falciparum* haem crystallization, 402:197
Pitsch, T. *See* Ries, C.
Plastre, O. *See* Serrander, L.
Plater, L. *See* Bain, J.
Plater, L. A. *See* Windheim, M.
Podschun, R. *See* Bruhn, O.
Pollak, N.
——; Dölle, C.; Ziegler, M.
The power to reduce: pyridine nucleotides – small molecules with a multitude of functions, 402:205
Polyakov, V. Yu. *See* Bryantsev, A. L.
Pomthong, B. *See* Opassiri, R.
Poole, A. W. *See* Hall, K. J.
Poon, R. Y. C.
——; Mitotic phosphorylation: breaking the balance of power by a tactical retreat, 403:e5 (online-only commentary on Escargueil, A. E.)
Pop, C. *See* Denault, J.-B.
Popot, J.-L. *See* Park, K.-H.
Powell, W. S. *See* Erlemann, K.-R.
Power, D. A. *See* Fraser, S. A.
Preissner, K. T. *See* Muhl, L.; Shibamiya, A.
Preston, A. *See* Westman, E. L.
Preti, A. *See* Manzoni, M.; Zanchetti, G.
Prevarskaya, N. *See* Crépin, A.
Procter, J. *See* Findlay, G. M.
Proost, P. *See* Fierens, E.
Proud, C. G.
——; A sharper instrument for dissecting signalling events: a specific AGC kinase inhibitor, 409:e1 (online-only commentary on Sapkota, G. P.)

© 2008 Biochemical Society

——; Signalling to translation: how signal transduction pathways control the protein synthetic machinery, 403:217
Proulx, C. D. *See* Holleran, B. J.
Prudent, R. *See* Laudet, B.
Pucci, B. *See* De Felice, M.; Park, K.-H.
Puglielli, L. *See* Costantini, C.
Pusch, M. *See* Macías, M. J.

Qin, X.-q. *See* Tan, Y.-r.
Qu, F. *See* Tan, Y.-r.
Quillet-Mary, A. *See* Charruyer, A.
Qureshi, S. H.
——; Yang, L.; Yegneswaran, S.; Rezaie, A. R. FRET studies with Factor X mutants provide insight into the topography of the membrane-bound Factor X/Xa, 407:427

Radi, R. *See* Piacenza, L.
Radzikowska, A. *See* Suchanek, M.
Radzio, J. *See* Nissley, D. V.
Ragg, H. *See* Brüning, M.
Ragimbeau, J. *See* Marijanovic, Z.
Raguz, S. *See* Randle, R. A.
Rahuel, C. *See* Collec, E.
Rainey, J. K. *See* Slepkov, E. R.
Ram, N. *See* Shahbazzadeh, D.
Ramakrishna, T. *See* Chowdary, T. K.
Raman, B. *See* Chowdary, T. K.
Ramani, K. *See* Ou, X.
Ramaswamy, K. *See* Pearse, I.
Ramirez-Espain, X. *See* Macías, M. J.
Ramjeesingh, M. *See* Stratford, F. L. L.
Ramos, H. L.
——; O'Shea, J. J.; Watford, W. T. STAT5 isoforms: controversies and clarifications, 404:e1 (online-only commentary on Schuster, B.)
Ramya, T. N. C.
——; Surolia, N.; Surolia, A. 15-Deoxyspergualin inhibits eukaryotic protein synthesis through eIF2α phosphorylation, 401:411
Randaccio, L. *See* Wuerges, J.
Randazzo, P. A. *See* Luo, R.
Randle, R. A.
——; Raguz, S.; Higgins, C. F.; Yagüe, E. Role of the highly structured 5′-end region of *MDR1* mRNA in P-glycoprotein expression, 406:445
Ranson, M. *See* Croucher, D. R.
Rao, Ch. M. *See* Chowdary, T. K.
Rao, J. N. *See* Xiao, L.
Rao, R. *See* Sheth, P.
Rapala-Kozik, M.
——; Olczak, M.; Ostrowska, K.; Starosta, A.; Kozik, A. Molecular characterization of the *thi3* gene involved in thiamine biosynthesis in *Zea mays*: cDNA sequence and enzymatic and structural properties of the recombinant bifunctional protein with 4-amino-5-hydroxymethyl-2-methylpyrimidine (phosphate) kinase and thiamine monophosphate synthase activities, 408:149
Raschle, T. *See* Fitzpatrick, T. B.
Rasmussen, H. B. *See* Larsen, K. S.
Rastogi, S. *See* Joshi, B.
Ratcliffe, P. J. *See* Ehrismann, D.
Rathore, V. B.
——; Okada, M.; Newman, P. J.; Newman, D. K. Paxillin family members function as Csk-binding proteins that regulate Lyn activity in human and murine platelets, 403:275
Ratnikov, B. I. *See* Shiryaev, S. A.
Raven, E. L. *See* Metcalfe, C. L.
Ravet, K. *See* Arnaud, N.
Rawlings, N. D.
——; Unusual phyletic distribution of peptidases as a tool for identifying potential drug targets, 401:e5 (online-only, commentary on Niemirowicz, G.)
Ray, R. M. *See* Bhattacharya, S.
Raynes, J. G. *See* Marsche, G.
Rebollo, A. *See* Jan, G.
Receveur-Brechot, V. *See* Sonan, G. K.
Reddy, G. B. *See* Kumar, P. A.
Reddy, J. V. *See* Gokool, S.
Redwood, C. *See* Flashman, E.
Reeder, B. J. *See* Silaghi-Dumitrescu, R.
Rees, M. D.
——; McNiven, T. N.; Davies, M. J. Degradation of extracellular matrix and its components by hypobromous acid, 401:587
Regenhard, P. *See* Bruhn, O.
Rehfeld, J. F. *See* Albertsson, P.-A.; Albertsson, P.-Å.
Reiser, G. *See* Wang, Y.; Zylberg, J.
Reitinger, S.
——; Laschober, G. T.; Fehrer, C.; Greiderer, B.; Lepperdinger, G. Mouse testicular hyaluronidase-like proteins SPAM1 and HYAL5 but not HYALP1 degrade hyaluronan, 401:79
Rejzek, M. *See* Westman, E. L.
Renaudet, O. *See* Laudet, B.
Rendić, D.
——; Klaudiny, J.; Stemmer, U.; Schmidt, J.; Paschinger, K.; Wilson, I. B. H. Towards abolition of immunogenic structures in insect cells: characterization of a honey-bee (*Apis mellifera*) multi-gene family reveals both an allergy-related core α1,3-fucosyltransferase and the first insect Lewis-histo-blood-group-related antigen-synthesizing enzyme, 402:105; 402:603 (Correction)
Resmini, M. *See* Boucher, G.
Rettori, D. *See* Iñarrea, P.
Revenu, C. *See* Jan, G.
Rewcastle, G. W. *See* Chaussade, C.
Rezaie, A. R. *See* Qureshi, S. H.
Richardson, D. J. *See* Clarke, T. A.; Dridge, E. J.; Thorndycroft, F. H.
Richardson, D. R.
——; Suryo Rahmanto, Y. Differential regulation of the Menkes and Wilson disease copper transporters by hormones: an integrated model of metal transport in the placenta, 402:e1 (online-only commentary on Hardman, B.)
Richmond, G. S.
——; Smith, T. K. The role and characterization of phospholipase A_1 in mediating lysophosphatidylcholine synthesis in *Trypanosoma brucei*, 405:319
Richter, W. *See* Andrä, J.
Ricquier, D. *See* Emre, Y.
Rider, C. C. *See* Alfano, I.
Ries, C.
——; Pitsch, T.; Mentele, R.; Zahler, S.; Egea, V.; Nagase, H.; Jochum, M. Identification of a novel 82 kDa proMMP-9 species associated with the surface of leukaemic cells: (auto-)catalytic activation and resistance to inhibition by TIMP-1, 405:547
Riester, D. *See* Moreth, K.
Riobo, N. A.
——; Manning, D. R. Pathways of signal transduction employed by vertebrate Hedgehogs, 403:369
Rioli, V. *See* Machado, M. F. M.
Rivas, G. *See* Sánchez-Barbero, F.
Rivera-Milla, E. *See* Solis, G. P.
Rizvi, T. A. *See* Hassan, A. H.
Roach, W. G.
——; Chavez, J. A.; Miinea, C. P.; Lienhard, G. E. Substrate specificity and effect on GLUT4 translocation of the Rab GTPase-activating protein Tbc1d1, 403:353 (*See* Koumanov, F. for online-only commentary)
Robbins, P. D. *See* Ghosh, H. S.
Robertson, E. J. *See* Biondi, C. A.
Robertson, J. D. *See* Franklin, E. E.
Robinson, C. V. *See* Ecroyd, H.
Robinson, H. *See* Wang, H.
Robinson, M. M.
——; McBryant, S. J.; Tsukamoto, T.; Rojas, C.; Ferraris, D. V.; Hamilton, S. K.; Hansen, J. C.; Curthoys, N. P. Novel mechanism of inhibition of rat kidney-type glutaminase by bis-2-(5-phenylacetamido-1,2,4-thiadiazol-2-yl)ethyl sulfide (BPTES), 406:407
Rode, W. *See* Cieśla, J.
Rodenburg, K. W. *See* Brüning, M.
Rodriguez, J. *See* Monaco, S.
Rodríguez de Fonseca, F. *See* Ferrer, B.
Rodríguez-Juárez, F.
——; Aguirre, E.; Cadenas, S. Relative sensitivity of soluble guanylate cyclase and mitochondrial respiration to endogenous nitric oxide at physiological oxygen concentration, 405:223 (see Landar, A. for online-only commentary)
Rogstam, A.
——; Linse, S.; Lindqvist, A.; James, P.; Wagner, L.; Berggård, T. Binding of calcium ions and SNAP-25 to the hexa EF-hand protein secretagogin, 401:353
Rohlfs, M. *See* Wiemuth, D.
Rohloff, P. *See* Fang, J.
Rojas, C. *See* Robinson, M. M.
Rojvirat, P. *See* Boonsaen, T.
Rokach, J. *See* Erlemann, K.-R.
Rolfs, A. *See* Mackenzie, B.
Rombouts, S. *See* Fierens, E.
Rompel, A. *See* Voronova, A.
Ronai, Z. *See* Nakayama, K.
Roncero, C. *See* Murillo, M. M.
Rondas, D. *See* de Hemptinne, V.
Ronjat, M. *See* Altafaj, X.; Shahbazzadeh, D.
Rosado, J. A. *See* Jardin, I.
Rose, T. *See* Zeller, M.-E.
Rosen, L. *See* Flom, G.
Rösl, F. *See* Nafz, J.
Ross, A. R. S. *See* Wan, L.
Rossary, A.
——; Arab, K.; Steghens, J.-P. Polyunsaturated fatty acids modulate NOX 4 anion superoxide production in human fibroblasts, 406:77
Rossi, D. *See* Altafaj, X.
Rossi, M. *See* De Felice, M.
Rossi-Bernardi, L. *See* Iafelice, R.
Rössle, M. *See* Andrä, J.
Rougé, P. *See* Van Damme, E. J. M.

© 2008 Biochemical Society

Rouzaut, A. *See* Cruchaga, C.
Rowntree, R. K. *See* Blackledge, N. P.
Roy, S. *See* Lévesque, D.
Rubaga, L. *See* Manzoni, M.
Rudel, L. L. *See* Brown, J. M.
Rufo, C. *See* Teran-Garcia, M.
Ruggiero, F. *See* Bonod-Bidaud, C.
Ruppert, T. *See* Schlecker, T.
Rusconi, L. *See* Bonanomi, D.
Russell, S. T. *See* Eley, H. L.
Russo, R. *See* Iafelice, R.
Russwurm, C. *See* Russwurm, M.
Russwurm, M.
——; Mullershausen, F.; Friebe, A.; Jäger, R.; Russwurm, C.; Koesling, D.
Design of fluorescence resonance energy transfer (FRET)-based cGMP indicators: a systematic approach, 407:69
Rutschmann, S. *See* Munafó, D. B.
Rychkov, G. Y. *See* Litjens, T.

Saadé, F. *See* Martin, G.
Saarinen, H. *See* Suchanek, M.
Sadana, P.
——; Park, E. A.
Characterization of the transactivation domain in the peroxisome-proliferator-activated receptor γ co-activator (PGC-1), 403:511
Sadowski, M.
——; Mawson, A.; Baker, R.; Sarcevic, B.
Cdc34 C-terminal tail phosphorylation regulates Skp1/cullin/F-box (SCF)-mediated ubiquitination and cell cycle progression, 405:569
Saghir, N. *See* Gharbi, S. I.
Sahni, J.
——; Nelson, B.; Scharenberg, A. M.
SLC41A2 encodes a plasma-membrane Mg^{2+} transporter, 401:505
Said, B. *See* Boucher, G.
Saint Just Ribeiro, M.
——; Hansson, M. L.; Wallberg, A. E.
A proline repeat domain in the Notch co-activator MAML1 is important for the p300-mediated acetylation of MAML1, 404:289
Sainz, E.
——; Cavenagh, M. M.; Gutierrez, J.; Battey, J. F.; Northup, J. K.; Sullivan, S. L.
Functional characterization of human bitter taste receptors, 403:537
Saito, J.-i.
——; Toriumi, S.; Awano, K.; Ichijo, H.; Sasaki, K.; Kobayashi, T.; Tamura, S.
Regulation of apoptosis signal-regulating kinase 1 by protein phosphatase 2Cε, 405:591
Sakai, M. *See* Ohta, K.
Salazar, H. *See* Salceda, E.
Salazar, K. L. *See* Wilson, C. R.
Salceda, E.
——; Pérez-Castells, J.; López-Méndez, B.; Garateix, A.; Salazar, H.; López, O.; Aneiros, A.; Ständker, L.; Béress, L.; Forssmann, W.-G.; Soto, E.; Jiménez-Barbero, J.; Giménez-Gallego, G.
CgNa, a type I toxin from the giant Caribbean sea anemone *Condylactis gigantea* shows structural similarities to both type I and II toxins, as well as distinctive structural and functional properties, 406:67
Salido, G. M. *See* Jardin, I.
Salminen, A. *See* Jämsen, J.
Salmon, L. *See* Stern, A. L.
Salvesen, G. S. *See* Denault, J.-B.; Timmer, J. C.; Wu, Y. I.
Sammels, E. *See* Devogelaere, B.
Sánchez, A. *See* Murillo, M. M.
Sánchez-Barbero, F.
——; Rivas, G.; Steinhilber, W.; Casals, C.
Structural and functional differences among human surfactant proteins SP-A1, SP-A2 and co-expressed SP-A1/SP-A2: role of supratrimeric oligomerization, 406:479
Sanchez-Vera, I. *See* Ferrer, B.
Sanders, M. J.
——; Grondin, P. O.; Hegarty, B. D.; Snowden, M. A.; Carling, D.
Investigating the mechanism for AMP activation of the AMP-activated protein kinase cascade, 403:139
Sandkvist, M. *See* Ishigami, S.
Sang, Q.-X. A. *See* Lee, S.
Sano, H. *See* Kodama, Y.
Santini, J. M. *See* Dridge, E. J.
Sapkota, G. P.
——; Cummings, L.; Newell, F. S.; Armstrong, C.; Bain, J.; Frodin, M.; Grauert, M.; Hoffmann, M.; Schnapp, G.; Steegmaier, M.; Cohen, P.; Alessi, D. R.
BI-D1870 is a specific inhibitor of the p90 RSK (ribosomal S6 kinase) isoforms *in vitro* and *in vivo*, 401:29
Saraiva, M. J. *See* Cardoso, I.
Sarcevic, B. *See* Sadowski, M.
Sasaki, K. *See* Saito, J.-i.
Sato, F. *See* Wachi, H.
Sato, O. *See* Hattori, H.
Satoh, S. *See* Zhao, J.
Sattler, W. *See* Marsche, G.
Sauer-Eriksson, A. E. *See* Olofsson, A.
Saunders, D. N. *See* Croucher, D. R.
Sawicki, A.
——; Willows, R. D.
S-Adenosyl-L-methionine:magnesium-protoporphyrin IX *O*-methyltransferase from *Rhodobacter capsulatus*: mechanistic insights and stimulation with phospholipids, 406:469
Sbodio, J. I. *See* Yeh, T.-Y. J.
Schaap, P. *See* Alvarez-Curto, E.
Schäfer, H. *See* Arlt, A.
Scharenberg, A. M. *See* Sahni, J.
Scheffer, G. L. *See* Ono, N.
Schenk, T. M. H. *See* Brehm, M. A.
Scherrer, J. *See* Farrés, J.
Scherrer, P. *See* de Jonge, J.
Schiff, Y. *See* Friedman, J.
Schilling, S.
——; Oesterhelt, C.
Structurally reduced monosaccharide transporters in an evolutionarily conserved red alga, 406:325
Schlecker, T.
——; Comini, M. A.; Melchers, J.; Ruppert, T.; Krauth-Siegel, R. L.
Catalytic mechanism of the glutathione peroxidase-type tryparedoxin peroxidase of *Trypanosoma brucei*, 405:445
Schlegel, W. *See* Serrander, L.
Schmidt, C. *See* Muller, D. N.
Schmidt, J. *See* Rendić, D.
Schnapp, G. *See* Sapkota, G. P.
Schnell, S. *See* Böer, U.
Schober, A. *See* Moreth, K.
Schoen, P. *See* de Jonge, J.
Schoenwaelder, S. M. *See* Arcaro, A.
Schofield, C. J. *See* Ehrismann, D.
Schöll, C. *See* Böer, U.
Scholl, P. F. *See* Pisciotta, J. M.
Schorer, R. *See* Fish, R. J.
Schöttler, M. A.
——; Flügel, C.; Thiele, W.; Stegemann, S.; Bock, R.
The plastome-encoded PsaJ subunit is required for efficient Photosystem I excitation, but not for plastocyanin oxidation in tobacco, 403:251
Schrock, Y. *See* Solis, G. P.
Schryvers, A. B. *See* Khan, A. G.
Schultz, V. *See* Heart, E.
Schunck, W.-H. *See* Muller, D. N.
Schuster, B.
——; Hendry, L.; Byers, H.; Lynham, S. F.; Ward, M. A.; John, S.
Purification and identification of the STAT5 protease in myeloid cells, 404:81 (*See* Ramos, H. L. for online-only commentary)
Schwarz, A.
——; Brecker, L.; Nidetzky, B.
Acid–base catalysis in *Leuconostoc mesenteroides* sucrose phosphorylase probed by site-directed mutagenesis and detailed kinetic comparison of wild-type and $Glu^{237} \rightarrow Gln$ mutant enzymes, 403:441
Schwienhorst, A. *See* Moreth, K.
Sciancalepore, J. P. *See* Myers, J. C.
Seaman, M. N. J. *See* Gokool, S.
Seeber, S. *See* Ulrich, M.
Seger, R. *See* Friedman, J.
Seibel, J. *See* Homann, A.
Sell, D. R.
——; Strauch, C. M.; Shen, W.; Monnier, V. M.
2-Aminoadipic acid is a marker of protein carbonyl oxidation in the aging human skin: effects of diabetes, renal failure and sepsis, 404:269
Semenza, G. L. *See* Tomita, M.
——; Oxygen-dependent regulation of mitochondrial respiration by hypoxia-inducible factor 1, 405:1
Senda, M.
——; Ito, A.; Tsuchida, A.; Hagiwara, T.; Kaneda, T.; Nakamura, Y.; Kasama, K.; Kiso, M.; Yoshikawa, K.; Katagiri, Y.; Ono, Y.; Ogiso, M.; Urano, T.; Furukawa, K.; Oshima, S.; Furukawa, K.
Identification and expression of a sialyltransferase responsible for the synthesis of disialylgalactosylgloboside in normal and malignant kidney cells: downregulation of ST6GalNAc VI in renal cancers, 402:459
Separovic, F. *See* Jackson, K. E.
Serrander, L.
——; Cartier, L.; Bedard, K.; Banfi, B.; Lardy, B.; Plastre, O.; Sienkiewicz, A.; Fórró, L.; Schlegel, W.; Krause, K.-H.
NOX4 activity is determined by mRNA levels and reveals a unique pattern of ROS generation, 406:105
Serrano, A. *See* Ferrer, B.
Seth, A. *See* Sheth, P.
Seto, E. *See* Joshi, B.
Settembre, C. *See* Fraldi, A.
Seyama, Y. *See* Wachi, H.
Shah, C. M. *See* Bell, S. E.
Shahbazzadeh, D.
——; Srairi-Abid, N.; Feng, W.; Ram, N.; Borchani, L.; Ronjat, M.; Akbari, A.; Pessah, I. N.; De Waard, M.; El Ayeb, M.
Hemicalcin, a new toxin from the Iranian scorpion *Hemiscorpius lepturus* which is

© 2008 Biochemical Society

active on ryanodine-sensitive Ca^{2+} channels, 404:89
Shalaby, T. *See* Arcaro, A.
Shankar, H. *See* Garcia, A.
Shapiro, J. L. *See* Zou, Y.
Sharples, R. A. *See* Caragounis, A.
Shaw, L. M. *See* Huang, J.
Shears, S. B. *See* Brehm, M. A.
Sheen, C.-W. *See* Nissley, D. V.
Sheldrick, E. L. R.
——; Derecka, K.; Marshall, E.; Chin, E. C.; Hodges, L.; Wathes, D. C.; Abayasekara, D. R. E.; Flint, A. P. F.
Peroxisome-proliferator-activated receptors and the control of levels of prostaglandin-endoperoxide synthase 2 by arachidonic acid in the bovine uterus, 406:175
Shen, W. *See* Sell, D. R.
Shen, Z.-Y. *See* Fang, W.-K.
Shenkman, M.
——; Tolchinsky, S.; Kondratyev, M.; Lederkremer, G. Z.
Transient arrest in proteasomal degradation during inhibition of translation in the unfolded protein response, 404:509
Shephard, E. A.
——; Chandan, P.; Stevanovic-Walker, M.; Edwards, M.; Phillips, I. R.
Alternative promoters and repetitive DNA elements define the species-dependent tissue-specific expression of the *FMO1* genes of human and mouse, 406:491
Shepherd, P. R. *See* Chaussade, C.
Sheth, P.
——; Seth, A.; Atkinson, K. J.; Gheyi, T.; Kale, G.; Giorgianni, F.; Desiderio, D. M.; Li, C.; Naren, A.; Rao, R.
Acetaldehyde dissociates the PTP1B–E-cadherin–β-catenin complex in Caco-2 cell monolayers by a phosphorylation-dependent mechanism, 402:291
Shi, Y. *See* Van, Q.
Shi, Z.
——; Stack, M. S.
Urinary-type plasminogen activator (uPA) and its receptor (uPAR) in squamous cell carcinoma of the oral cavity, 407:153
Shibahara, S. *See* Zhang, J.
Shibamiya, A.
——; Muhl, L.; Tannert-Otto, S.; Preissner, K. T.; Kanse, S. M.
Nucleic acids potentiate Factor VII-activating protease (FSAP)-mediated cleavage of platelet-derived growth factor-BB and inhibition of vascular smooth muscle cell proliferation, 404:45
Shibata, N.
——; Suzuki, A.; Kobayashi, H.; Okawa, Y.
Chemical structure of the cell-wall mannan of *Candida albicans* serotype A and its difference in yeast and hyphal forms, 404:365
Shikamoto, Y. *See* Gopinath, S. C. B.
Shim, E. K. *See* Jung, S. H.
Shimada, M. *See* Minami, R.
Shimoni, Y. *See* Hunt, D. J.; Li, B.
Shin, H. *See* Denault, J.-B.
Shindo, S.
——; Numazawa, S.; Yoshida, T.
A physiological role of AMP-activated protein kinase in phenobarbital-mediated constitutive androstane receptor activation and CYP2B induction, 401:735
Shirihai, O. *See* Heart, E.
Shiryaev, S. A.
——; Kozlov, I. A.; Ratnikov, B. I.; Smith, J. W.; Lebl, M.; Strongin, A. Y.
Cleavage preference distinguishes the two-component NS2B–NS3 serine proteinases of Dengue and West Nile viruses, 401:743
Shoshiashvili, L. *See* Giamas, G.
Shouldice, S. R. *See* Khan, A. G.
Shpiro, N. *See* Bain, J.
Shroder, D. *See* Luo, R.
Shulaev, V. *See* Pisciotta, J. M.
Shuman, J. *See* Pisciotta, J. M.
Shuttleworth, C. A. *See* Lomas, A. C.
Shuttleworth, S. J. *See* Gharbi, S. I.
Siddle, K. *See* Benyoucef, S.
Siemerink, M. A. J. *See* Wolterink-van Loo, S.
Sienkiewicz, A. *See* Serrander, L.
Silaghi-Dumitrescu, R.
——; Reeder, B. J.; Nicholls, P.; Cooper, C. E.; Wilson, M. T.
Ferryl haem protonation gates peroxidatic reactivity in globins, 403:391
Sillard, R. *See* Voronova, A.
Silva, D. T. *See* da Silveira, R. B.
Sinclair, D. *See* Michan, S.
Sirpiö, S.
——; Allahverdiyeva, Y.; Suorsa, M.; Paakkarinen, V.; Vainonen, J.; Battchikova, N.; Aro, E.-M.
TLP18.3, a novel thylakoid lumen protein regulating photosystem II repair cycle, 406:415
Skach, W. R.
——; Pharmacological chaperoning: two 'hits' are better than one, 406:e1 (online-only commentary on Wang, Y.)
Skopiński, T. *See* Cieśla, J.
Sleat, D. E. *See* Dixit, S. S.
Slepkov, E. R.
——; Rainey, J. K.; Sykes, B. D.; Fliegel, L.
Structural and functional analysis of the Na^+/H^+ exchanger, 401:623
Slomianny, C. *See* Crépin, A.
Slotte, J. P. *See* Helppolainen, S. H.
Sluis-Cremer, N. *See* Nissley, D. V.
Smith, A. M. *See* Zeeman, S. C.
Smith, D. F. *See* Bowyer, P. W.; Van Damme, E. J. M.
Smith, J. W. *See* Shiryaev, S. A.; Timmer, J. C.
Smith, P. J. S. *See* Heart, E.
Smith, S. M. *See* Zeeman, S. C.
Smith, T. K. *See* Richmond, G. S.
Smolenaars, M. M. W. *See* Brüning, M.
Snead, M. L. *See* Zou, Y.
Snider, M. D. *See* Lopez, A. B.
Snipas, S. J. *See* Wu, Y. I.
Snowden, M. A. *See* Sanders, M. J.
Sobott, F. *See* Soundararajan, M.
Sogawa, C.
——; Kumagai, K.; Sogawa, N.; Morita, K.; Dohi, T.; Kitayama, S.
C-terminal region regulates the functional expression of human noradrenaline transporter splice variants, 401:185
Sogawa, N. *See* Sogawa, C.
Sohal, R. S. *See* Toroser, D.
Sola-Penna, M. *See* Costa Leite, T.
Solan, J. L. *See* Sosinsky, G. E.
Solis, G. P.
——; Hoegg, M.; Munderloh, C.; Schrock, Y.; Malaga-Trillo, E.; Rivera-Milla, E.; Stuermer, C. A. O.
Reggie/flotillin proteins are organized into stable tetramers in membrane microdomains, 403:313
Sonan, G. K.
——; Receveur-Brechot, V.; Duez, C.; Aghajari, N.; Czjzek, M.; Haser, R.; Gerday, C.
The linker region plays a key role in the adaptation to cold of the cellulase from an Antarctic bacterium, 407:293
Song, D. *See* Huang, J.
Song, T.
——; Sugimoto, K.; Ihara, H.; Mizutani, A.; Hatano, N.; Kume, K.; Kambe, T.; Yamaguchi, F.; Tokuda, M.; Watanabe, Y.
p90 RSK-1 associates with and inhibits neuronal nitric oxide synthase, 401:391
Song, Y.
——; Wilkins, P.; Hu, W.; Murthy, K. S.; Chen, J.; Lee, Z.; Oyesanya, R.; Wu, J.; Barbour, S. E.; Fang, X.
Inhibition of calcium-independent phospholipase A_2 suppresses proliferation and tumorigenicity of ovarian carcinoma cells, 406:427
Sorice, M. *See* Barbat, C.
Sorrentino, V. *See* Altafaj, X.
Sosinsky, G. E.
——; Solan, J. L.; Gaietta, G. M.; Ngan, L.; Lee, G. J.; Mackey, M. R.; Lampe, P. D.
The C-terminus of connexin43 adopts different conformations in the Golgi and gap junction as detected with structure-specific antibodies, 408:375
Soto, E. *See* Salceda, E.
Soundararajan, M.
——; Yang, X.; Elkins, J. M.; Sobott, F.; Doyle, D. A.
The centaurin γ-1 GTPase-like domain functions as an NTPase, 401:679
Spencer, J. V. *See* Ghosh, H. S.
Spielmann, T. *See* Jackson, K. E.
Spite, M.
——; Baba, S. P.; Ahmed, Y.; Barski, O. A.; Nijhawan, K.; Petrash, J. M.; Bhatnagar, A.; Srivastava, S.
Substrate specificity and catalytic efficiency of aldo-keto reductases with phospholipid aldehydes, 405:95
Spotheim-Maurizot, M. *See* Gillard, N.
Spraggon, G. *See* Li, J.
Srairi-Abid, N. *See* Shahbazzadeh, D.
Srivastava, S. *See* Spite, M.
Stack, M. S. *See* Shi, Z.; Wu, Y. I.
Staels, B. *See* Murakami, T.
Ständker, L. *See* Salceda, E.
Starcher, B. C. *See* Wachi, H.
Starosta, A. *See* Rapala-Kozik, M.
Stavridou, I. *See* Caddick, S. E. K.
Steegborn, C. *See* Middelhaufe, S.
Steegmaier, M. *See* Sapkota, G. P.
Steelant, W. F. A. *See* Van Slambrouck, S.
Steffensen, B. *See* Xu, X.
Stegemann, S. *See* Schöttler, M. A.
Steghens, J.-P. *See* Rossary, A.
Steinhilber, W. *See* Sánchez-Barbero, F.
Stemmer, U. *See* Rendić, D.
Stenberg, G. *See* Wiktelius, E.
Stennicke, H. R. *See* Larsen, K. S.
Stern, A. L.
——; Burgos, E.; Salmon, L.; Cazzulo, J. J.
Ribose 5-phosphate isomerase type B from *Trypanosoma cruzi*: kinetic properties and site-directed mutagenesis reveal information about the reaction mechanism, 401:279
Stevanovic-Walker, M. *See* Shephard, E. A.
Stevenson, C. E. M. *See* Just, V. J.

© 2008 Biochemical Society

Stiel, A. C.
——; Trowitzsch, S.; Weber, G.; Andresen, M.; Eggeling, C.; Hell, S. W.; Jakobs, S.; Wahl, M. C.
1.8 Å bright-state structure of the reversibly switchable fluorescent protein Dronpa guides the generation of fast switching variants, 402:35
Stillfried, G. E. *See* Croucher, D. R.
Stirling, C. J. *See* Chakravarthi, S.
Stock, A. M. *See* Dixit, S. S.
Stojan, J. *See* Massa, C.
Storm, G. *See* Fretz, M. M.
Stratford, F. L. L.
——; Ramjeesingh, M.; Cheung, J. C.; Huan, L.-J.; Bear, C. E.
The Walker B motif of the second nucleotide-binding domain (NBD2) of CFTR plays a key role in ATPase activity by the NBD1–NBD2 heterodimer, 401:581
Stratford, F. L. L. *See* Pereira, M. M. C.
Strauch, C. M. *See* Sell, D. R.
Strongin, A. Y. *See* Shiryaev, S. A.
Stuermer, C. A. O. *See* Solis, G. P.
Suchanek, M.
——; Hynynen, R.; Wohlfahrt, G.; Lehto, M.; Johansson, M.; Saarinen, H.; Radzikowska, A.; Thiele, C.; Olkkonen, V. M.
The mammalian oxysterol-binding protein-related proteins (ORPs) bind 25-hydroxycholesterol in an evolutionarily conserved pocket, 405:473
Suchankova, G. *See* Teran-Garcia, M.
Suen, K. F. *See* Li, J.
Sugahara, K. *See* Izumikawa, T.
Sugimoto, K. *See* Song, T.
Sullivan, Jr, D. J. *See* Pisciotta, J. M.
Sullivan, S. L. *See* Sainz, E.
Sung, H.-C. *See* Park, Y.-S.
Suorsa, M. *See* Sirpiö, S.
Supuran, C. T. *See* Ohradanova, A.
Surinya, K. H. *See* Benyoucef, S.; Boonsaen, T.
Surolia, A. *See* Ramya, T. N. C.
Surolia, N. *See* Ramya, T. N. C.
Suryo Rahmanto, Y. *See* Richardson, D. R.
Suzuki, A. *See* Shibata, N.
Suzuki, K. *See* Hoshino, T.; Makise, M.
Suzuki, T. *See* Hoshino, T.
Swanton, E. *See* Callan, A. C.
Sy, M.-S. *See* Li, C.; Yu, S.
Sykes, B. D. *See* Slepkov, E. R.
Szabo, Z. *See* Wachi, H.
Szöor, B. *See* Beresford, N.

Taanman, J.-W. *See* Mousson de Camaret, B.
Tabernero, L. *See* Beresford, N.
Tachedjian, G. *See* Nissley, D. V.
Taegtmeyer, H. *See* Wilson, C. R.
Taib, N. *See* Grise, F.
Taira, N. *See* Tomita, M.
Takahashi, H.
——; Namiki, H.
Mechanism of membrane redistribution of protein kinase C by its ATP-competitive inhibitors, 405:331
Takahashi, M. *See* Li, B.
Takahashi, N. *See* Makise, M.
Takanaga, H. *See* Mackenzie, B.
Takano-Yamamoto, T. *See* Zheng, L.
Takeshige, K. *See* Matsuo, S.
Takeuchi, T. *See* Fretz, M. M.
Taleux, N. *See* Guigas, B.
Tam, E. *See* Iida, J.
Tamoi, M.
——; Kurotaki, H.; Fukamizo, T.
β-1,4-Glucanase-like protein from the cyanobacterium *Synechocystis* PCC6803 is a β-1,3-1,4-glucanase and functions in salt stress tolerance, 405:139
Tamura, S. *See* Saito, J.-i.
Tan, O. *See* Klonis, N.
Tan, Y.-r.
——; Qin, X.-q.; Xiang, Y.; Yang, T.; Qu, F.; Wang, Y.; Liu, H.-j.; Weber, H. C.
PPARα and AP-2α regulate bombesin receptor subtype 3 expression in ozone-stressed bronchial epithelial cells, 405:131
Tanaka, K. *See* Hong, M.
Tanaka, Y. *See* Tomita, M.
Taneja, P.
——; Nasheuer, H.-P.; Hartmann, H.; Grosse, F.; Fanning, E.; Weisshart, K.
Timed interactions between viral and cellular replication factors during the initiation of SV40 *in vitro* DNA replication, 407:313
Tang, Y. *See* Ahmad, F.
Tang, Z.
——; Tsurumi, A.; Alaei, S.; Wilson, C.; Chiu, C.; Oya, J.; Ngo, B.
Dsk1p kinase phosphorylates SR proteins and regulates their cellular localization in fission yeast, 405:21
Tanguy Le Gac, N. *See* Blanca, G.
Tannert-Otto, S. *See* Shibamiya, A.
Tao, W. A. *See* Timmer, J. C.
Tapryal, N. *See* Das, D.
Tardieux, I. *See* Jan, G.
Tari, L. W. *See* Khan, A. G.
Tate, E. W. *See* Bowyer, P. W.
Tattersall, D. *See* Gokool, S.
Tavernier, J. *See* Lavens, D.
Taylor, D. R.
——; Hooper, N. M.
The low-density lipoprotein receptor-related protein 1 (LRP1) mediates the endocytosis of the cellular prion protein, 402:17
Taylor, M. C. *See* Logan, F. J.; Piacenza, L.
Taylor, R. W. *See* Elson, J. L.
Tazmini, G. *See* Johnson, J. E.
Teijido, O. *See* Macías, M. J.
Teintenier-Lelièvre, M.
——; Julien, S.; Juliant, S.; Guerardel, Y.; Duonor-Cérutti, M.; Delannoy, P.; Harduin-Lepers, A.
Molecular cloning and expression of a human hST8Sia VI (α2,8-sialyltransferase) responsible for the synthesis of the diSia motif on O-glycosylproteins, 401:763 (Correction)
Tek, V. *See* Agbas, A.
Tekle, M. *See* Teran-Garcia, M.
Telfer, J. F. *See* Batty, I. H.
Temperini, C. *See* Ohradanova, A.
Tenopoulou, M.
——; Kurz, T.; Doulias, P.-T.; Galaris, D.; Brunk, U. T.
Does the calcein-AM method assay the total cellular 'labile iron pool' or only a fraction of it?, 403:261
Teran-Garcia, M.
——; Adamson, A. W.; Yu, G.; Rufo, C.; Suchankova, G.; Dreesen, T. D.; Tekle, M.; Clarke, S. D.; Gettys, T. W.
Polyunsaturated fatty acid suppression of fatty acid synthase (FASN): evidence for dietary modulation of NF-Y binding to the *Fasn*promoter by SREBP-1c, 402:591
Terashima, M. *See* Nishida, T.
Tersariol, I. L. *See* Machado, M. F. M.
Tettamanti, G. *See* Manzoni, M.; Zanchetti, G.
Teubner, W.
——; Meinl, W.; Florian, S.; Kretzschmar, M.; Glatt, H.
Identification and localization of soluble sulfotransferases in the human gastrointestinal tract, 404:207
Tews, I. *See* Fitzpatrick, T. B.
Thackray, A. M.
——; Hopkins, L.; Bujdoso, R.
Proteinase K-sensitive disease-associated ovine prion protein revealed by conformation-dependent immunoassay, 401:475
Thaller, G. *See* Bruhn, O.
Thiaville, M. M. *See* Pan, Y.-X.
Thiele, C. *See* Suchanek, M.
Thiele, W. *See* Schöttler, M. A.
Thirion, J. *See* Wattiaux, R.
Thompsett, A. R. *See* O'Sullivan, D. B. D.
Thoraval, D. *See* Mocan, I.
Thorndycroft, F. H.
——; Butland, G.; Richardson, D. J.; Watmough, N. J.
A new assay for nitric oxide reductase reveals two conserved glutamate residues form the entrance to a proton-conducting channel in the bacterial enzyme, 401:111
Thorogate, R.
——; Török, K.
Role of Ca^{2+} activation and bilobal structure of calmodulin in nuclear and nucleolar localization, 402:71
Thowfeequ, S. *See* Burke, Z. D.
Tien, P. *See* Yu, S.
Tiganis, T.
——; Bennett, A. M.
Protein tyrosine phosphatase function: the substrate perspective, 402:1
Tilley, L. *See* Jackson, K. E.; Klonis, N.
Timm, D. E. *See* Bateman, R. L.
Timmer, J. C.
——; Enoksson, M.; Wildfang, E.; Zhu, W.; Igarashi, Y.; Denault, J.-B.; Ma, Y.; Dummitt, B.; Chang, Y.-H.; Mast, A. E.; Eroshkin, A.; Smith, J. W.; Tao, W. A.; Salvesen, G. S.
Profiling constitutive proteolytic events *in vivo*, 407:41
Timms, J. F. *See* Gharbi, S. I.
Tisdale, M. J. *See* Eley, H. L.
Tiso, N. *See* Manzoni, M.
Tobias, J. H. *See* Chan, C. W.
Tokuda, M. *See* Song, T.
Tolchinsky, S. *See* Shenkman, M.
Toma, L. *See* da Silveira, R. B.
Tomita, M.
——; Semenza, G. L.; Michiels, C.; Matsuda, T.; Uchihara, J.-N.; Okudaira, T.; Tanaka, Y.; Taira, N.; Ohshiro, K.; Mori, N.
Activation of hypoxia-inducible factor 1 in human T-cell leukaemia virus type 1-infected cell lines and primary adult T-cell leukaemia cells, 406:317
Tomita, N. *See* Kamisaka, Y.
Toms, H. *See* O'Sullivan, D. B. D.
Tonganunt, M. *See* Graidist, P.
Toriumi, S. *See* Saito, J.-i.
Tornheim, K. *See* Heart, E.
Török, K. *See* Thorogate, R.
Toroser, D.
——; Sohal, R. S.

© 2008 Biochemical Society

Age-associated perturbations in glutathione synthesis in mouse liver, 405:583
Tosh, D. *See* Burke, Z. D.
Toth, R. *See* Geraghty, K. M.; McCoy, C. E.
Touraine, B. *See* Arnaud, N.
Tran, M. K. *See* Wilson, C. R.
Trauger, J. W. *See* Li, J.
Tremblay, G. M. *See* Doucet, A.
Trenholme, K. R. *See* Jackson, K. E.
Treuter, E. *See* Matthews, J.
Tripathi, A. K. *See* Pisciotta, J. M.
Trowitzsch, S. *See* Stiel, A. C.
Trucy, M. *See* Barbat, C.
Tsai, A. G. *See* Acharya, S. A.
Tsuchida, A. *See* Senda, M.
Tsuchiya, T. *See* Makise, M.
Tsui, F. *See* Ishigami, S.
Tsukamoto, T. *See* Robinson, M. M.
Tsun, Z.-Y. *See* Yeh, T.-Y. J.
Tsurumi, A. *See* Tang, Z.
Tu, P.-J. *See* Hsieh, Y.-C.
Tullin, S. *See* Lou, P.-H.
Tumanut, C. *See* Li, J.
Tumanut, R. *See* Li, J.
Tunnicliffe, R. B. *See* Cicortas Gunnarsson, L.
Tuominen, H. *See* Jämsen, J.
Turk, B. E.
——; Manipulation of host signalling pathways by anthrax toxins, 402:405
Turnbull, D. M. *See* Elson, J. L.
Turner, D. J. *See* Xiao, L.
Turner, J. E. *See* Hooks, M. A.
Turner, M. *See* Pearce, A. C.
Twiddy, D.
——; Cain, K.
Caspase-9 cleavage: do you need it?, 405:e1 (online-only commentary on Denault, J.-B.)
Tzafriri, A. R.
——; Edelman, E. R.
Endosomal receptor kinetics determine the stability of intracellular growth factor signalling complexes, 402:537

Uchihara, J.-N. *See* Tomita, M.
Ueda, K. *See* Kimura, Y.
Uemura, H. *See* Kamisaka, Y.
Ulrich, M.
——; Seeber, S.; Becker, C.-M.; Enz, R.
Tax1-binding protein 1 is expressed in the retina and interacts with the $GABA_C$ receptor ρ1 subunit, 401:429
Ulrichts, P. *See* Lavens, D.
Uney, J. *See* Chan, C. W.
Urano, T. *See* Senda, M.
Urban, Z. *See* Wachi, H.
Uyama, T. *See* Izumikawa, T.
Uzé, G. *See* Marijanovic, Z.

Vadrevu, S. *See* Baillie, G. S.
Vaganay, E. *See* Bonod-Bidaud, C.
Vaghjiani, R. J. *See* O'Hara, K. A.
Vainiotalo, P. *See* Helppolainen, S. H.
Vainonen, J. *See* Sirpiö, S.
Valencia, G. *See* Cardoso, I.
Valjakka, J. *See* Helppolainen, S. H.
Valtorta, F. *See* Bonanomi, D.
Van, Q.
——; Liu, J.; Lu, B.; Feingold, K. R.; Shi, Y.; Lee, R. M.; Hatch, G. M.
Phospholipid scramblase-3 regulates cardiolipin *de novo* biosynthesis and its resynthesis in growing HeLa cells, 401:103
van Beurden, E. *See* van den Berghe, P. V. E.
van Blitterswijk, W. J. *See* van der Luit, A. H.
Van Campenhout, S. *See* Fierens, E.
Vancompernolle, K. *See* de Hemptinne, V.
Van Damme, E. J. M.
——; Nakamura-Tsuruta, S.; Smith, D. F.; Ongenaert, M.; Winter, H. C.; Rougé, P.; Goldstein, I. J.; Mo, H.; Kominami, J.; Culerrier, R.; Barre, A.; Hirabayashi, J.; Peumans, W. J.
Phylogenetic and specificity studies of two-domain GNA-related lectins: generation of multispecificity through domain duplication and divergent evolution, 404:51
van Deemter, E. *See* Ono, N.
Vandekerckhove, J. *See* de Hemptinne, V.; Lavens, D.
Vanden-Abeele, F. *See* Crépin, A.
van den Berghe, P. V. E.
——; Folmer, D. E.; Malingré, H. E. M.; van Beurden, E.; Klomp, A. E. M.; van de Sluis, B.; Merkx, M.; Berger, R.; Klomp, L. W. J.
Human copper transporter 2 is localized in late endosomes and lysosomes and facilitates cellular copper uptake, 407:49
van der Heijden, I. *See* Ono, N.
Van der Heyden, J. *See* Marijanovic, Z.
van der Kaay, J. *See* Batty, I. H.
van der Luit, A. H.
——; Budde, M.; Zerp, S.; Caan, W.; Klarenbeek, J. B.; Verheij, M.; van Blitterswijk, W. J.
Resistance to alkyl-lysophospholipid-induced apoptosis due to downregulated sphingomyelin synthase 1 expression with consequent sphingomyelin- and cholesterol-deficiency in lipid rafts, 401:541
Vandermoere, F. *See* Geraghty, K. M.
van der Oost, J. *See* Wolterink-van Loo, S.
van de Sluis, B. *See* van den Berghe, P. V. E.
van de Wetering, K. *See* Ono, N.
van Eerde, A. *See* Wolterink-van Loo, S.
Van Haastert, P. J. M. *See* Bader, S.
Van Lint, J. *See* Devogelaere, B.
van Roermund, C. W. T. *See* Visser, W. F.
Van Schaftingen, E. *See* Fortpied, J.
Van Seuningen, I. *See* Piessen, G.
Van Slambrouck, S.
——; Steelant, W. F. A.
Clustering of monosialyl-Gb5 initiates downstream signalling events leading to invasion of MCF-7 breast cancer cells, 401:689
Vara-Vega, A. *See* Villar, D.
Vararattanavech, A.
——; Ketterman, A. J.
A functionally conserved basic residue in glutathione transferases interacts with the glycine moiety of glutathione and is pivotal for enzyme catalysis, 406:247
Vázquez-Cuesta, S. N.
See Domínguez-González, I.
Veiga, S. S. *See* da Silveira, R. B.
Venerando, B. *See* Manzoni, M.; Zanchetti, G.
Verheij, M. *See* van der Luit, A. H.
Vertommen, D. *See* Fortpied, J.
Vidal, H. *See* Fröjdö, S.
Vidal, V. *See* Murakami, T.
Viglino, C. *See* Fish, R. J.
Vigorito, E. *See* Pearce, A. C.
Viles, J. H. *See* Klewpatinond, M.; O'Sullivan, D. B. D.
Villa-Moruzzi, E.
Targeting of FAK Ser^{910} by ERK5 and PP1δ in non-stimulated and phorbol ester-stimulated cells, 408:7
Villani, G. *See* Blanca, G.
Villar, D.
——; Vara-Vega, A.; Landázuri, M. O.; Del Peso, L.
Identification of a region on hypoxia-inducible-factor prolyl 4-hydroxylases that determines their specificity for the oxygen degradation domains, 408:231
Vincent, A. *See* Piessen, G.
Viollet, B. *See* Guigas, B.
Vionnet, C. *See* Cerantola, V.
Visigalli, I. *See* Fraldi, A.
Visser, W. F.
——; van Roermund, C. W. T.; Ijlst, L.; Waterham, H. R.; Wanders, R. J. A.
Metabolite transport across the peroxisomal membrane, 401:365
Vogel, H. J. *See* Gifford, J. L.
Volckaert, G. *See* Fierens, E.
Volinsky, N. *See* Weisz Hubsman, M.
Volitakis, I. *See* Caragounis, A.
von Eckardstein, A. *See* Hornemann, T.
Vora, P. *See* Alfano, I.
Vorgias, C. E. *See* Giamas, G.
Voronova, A.
——; Meyer-Klaucke, W.; Meyer, T.; Rompel, A.; Krebs, B.; Kazantseva, J.; Sillard, R.; Palumaa, P.
Oxidative switches in functioning of mammalian copper chaperone Cox17, 408:139
Voskoboinik, I. *See* Hung, Y. H.
Vosper, J. M. D.
——; Fiore-Heriche, C. S.; Horan, I.; Wilson, K.; Wise, H.; Philpott, A.
Regulation of neurogenin stability by ubiquitin-mediated proteolysis, 407:277
Vullo, D. *See* Ohradanova, A.

Wachi, H.
——; Sato, F.; Nakazawa, J.; Nonaka, R.; Szabo, Z.; Urban, Z.; Yasunaga, T.; Maeda, I.; Okamoto, K.; Starcher, B. C.; Li, D. Y.; Mecham, R. P.; Seyama, Y.
Domains 16 and 17 of tropoelastin in elastic fibre formation, 402:63
Waelkens, E. *See* Devogelaere, B.
Wagner, L. *See* Rogstam, A.
Wagstaff, K. M.
——; Jans, D. A.
Nucleocytoplasmic transport of DNA: enhancing non-viral gene transfer, 406:185
Wahab, N.
——; Cox, D.; Witherden, A.; Mason, R. M.
Connective tissue growth factor (CTGF) promotes activated mesangial cell survival via up-regulation of mitogen-activated protein kinase phosphatase-1 (MKP-1), 406:131
Wahl, M. C. *See* Stiel, A. C.
Wakebe, K. *See* Murayama, T.
Walczak, R. *See* Murakami, T.
Wallace, C. J. A. *See* Kalanxhi, E.
Wallace, J. C. *See* Boonsaen, T.; Keyhanfar, M.
Wallberg, A. E. *See* Saint Just Ribeiro, M.
Walsh, M. J. *See* Paul, T.
Walsh, M. P. *See* Gifford, J. L.

© 2008 Biochemical Society

Wan, C.-F.
——; Chen, W.-H.; Chen, C.-T.; Chang, M. D.-T.; Lo, L.-C.; Li, Y.-K.
Mutagenesis and mechanistic study of a glycoside hydrolase family 54 α-L -arabinofuranosidase from *Trichoderma kemingii*, 401:551
Wan, L.
——; Ross, A. R. S.; Yang, J.; Hegedus, D. D.; Kermode, A. R.
Phosphorylation of the 12 S globulin cruciferin in wild-type and *abi1-1* mutant *Arabidopsis thaliana* (thale cress) seeds, 404:247
Wanderling, S. *See* Biswas, C.
Wanders, R. J. A. *See* Visser, W. F.
Wang, C. *See* Lopez, A. B.; Wang, P.
Wang, C.-J. *See* Chao, M.-R.
Wang, F.
——; Lothrop, A. P.; James, N. G.; Griffiths, T. A. M.; Lambert, L. A.; Leverence, R.; Kaltashov, I. A.; Andrews, N. C.; MacGillivray, R. T. A.; Mason, A. B.
A novel murine protein with no effect on iron homoeostasis is homologous with transferrin and is the putative inhibitor of carbonic anhydrase, 406:85
Wang, H. *See* Zou, Y.
——; Peng, M.-S.; Chen, Y.; Geng, J.; Robinson, H.; Houslay, M. D.; Cai, J.; Ke, H.
Structures of the four subfamilies of phosphodiesterase-4 provide insight into the selectivity of their inhibitors, 408:193
Wang, J.-Y. *See* Xiao, L.
Wang, M.-W. *See* Lin, X.
Wang, P.
——; Kumar, P.; Wang, C.; DeFea, K. A.
Differential regulation of class IA phosphoinositide 3-kinase catalytic subunits p110α and β by protease-activated receptor 2 and β-arrestins, 408:221
Wang, R. *See* Hunt, D. J.
Wang, S.-C.
——; Lai, H.-L.; Chiu, Y.-T.; Ou, R.; Huang, C.-L.; Chern, Y.
Regulation of type V adenylate cyclase by Ric8a, a guanine nucleotide exchange factor, 406:383
Wang, S.-L. *See* Huang, S.-M.
Wang, X. *See* Agbas, A.; Liu, M.
Wang, Y. *See* Tan, Y.-r.; Xu, X.
——; Loo, T. W.; Bartlett, M. C.; Clarke, D. M.
Additive effect of multiple pharmacological chaperones on maturation of CFTR processing mutants, 406:257 (*See* Skach, W. R. for online-only commentary)
——; Luo, W.; Reiser, G.
Proteinase-activated receptor-1 and -2 induce the release of chemokine GRO/CINC-1 from rat astrocytes via differential activation of JNK isoforms, evoking multiple protective pathways in brain, 401:65
Wang, Y.-J. *See* Lin, X.
Ward, M. A. *See* Schuster, B.
Wärnmark, A. *See* Jakobsson, T.
Watanabe, S. *See* Zhao, J.
Watanabe, Y. *See* Song, T.
Waterfield, M. D. *See* Gharbi, S. I.
Waterham, H. R. *See* Visser, W. F.
Watford, W. T. *See* Ramos, H. L.
Wathes, D. C. *See* Sheldrick, E. L. R.
Watkins, H. *See* Flashman, E.
Watmough, N. J. *See* Thorndycroft, F. H.
Watson, R. P.
——; Demmer, J.; Baker, E. N.; Arcus, V. L.
Three-dimensional structure and ligand binding properties of Trichosurin, a metatherian lipocalin from the milk whey of the common brushtail possum *Trichosurus vulpecula*, 408:29
Watson, S. P. *See* Pearce, A. C.
Wattiaux, R.
——; Wattiaux-De Coninck, S.; Thirion, J.; Gasingirwa, M. C.; Jadot, M.
Lysosomes and Fas-mediated liver cell death, 403:89
Wattiaux-De Coninck, S. *See* Wattiaux, R.
Watts, C. A. *See* Dridge, E. J.
Weber, G. *See* Stiel, A. C.
Weber, H. C. *See* Tan, Y.-r.
Weber, J. D. *See* Wong, S.
Weening, K. E. *See* Alvarez-Curto, E.
Wegener, D. *See* Moreth, K.
Wei, L. *See* Kimura, T.
Wei, Y. *See* Hornemann, T.
Weisel, J. W. *See* Myers, J. C.
Weisshart, K. *See* Taneja, P.
Weisz Hubsman, M.
——; Volinsky, N.; Manser, E.; Yablonski, D.; Aronheim, A.
Autophosphorylation-dependent degradation of Pak1, triggered by the Rho-family GTPase, Chp, 404:487
Wek, R. C. *See* Lopez, A. B.
Wellner, M. *See* Muller, D. N.
Westman, E. L.
——; Mcnally, D. J.; Rejzek, M.; Miller, W. L.; Kannathasan, V. S.; Preston, A.; Maskell, D. J.; Field, R. A.; Brisson, J.-R.; Lam, J. S.
Identification and biochemical characterization of two novel UDP-2,3-diacetamido-2,3-dideoxy-α-D-glucuronic acid 2-epimerases from respiratory pathogens, 405:123, 405:625 (Correction)
Weston, M. *See* Ahmad, F.
White, A. R. *See* Caragounis, A.
White, F. A. *See* Brandt-Bohne, U.
Whitmarsh, A. J. *See* Jones, E. V.
Whitney, S. M. *See* Greene, D. N.
Whittaker, J. *See* Keyhanfar, M.
Wickramsinghe, S. R. *See* Bowyer, P. W.
Wiemuth, D.
——; Ke, Y.; Rohlfs, M.; McDonald, F. J.
Epithelial sodium channel (ENaC) is multi-ubiquitinated at the cell surface, 405:147
Wihlén, B. *See* Matthews, J.
Wiktelius, E.
——; Stenberg, G.
Novel class of glutathione transferases from cyanobacteria exhibit high catalytic activities towards naturally occurring isothiocyanates, 406:15
Wildfang, E. *See* Timmer, J. C.
Wilhelmson, K. L. *See* Iida, J.
Wilkins, P. *See* Song, Y.
Wilkinson, S. R. *See* Logan, F. J.; Piacenza, L.
Wille, A. C. M. *See* da Silveira, R. B.
Willer, M. *See* Chakravarthi, S.
Williams, D. J. *See* Brendza, K. M.
Williamson, M. P. *See* Cicortas Gunnarsson, L.
Willows, R. D. *See* Sawicki, A.
Wilschut, J. *See* de Jonge, J.
Wilson, C. *See* Tang, Z.
Wilson, C. R.
——; Tran, M. K.; Salazar, K. L.; Young, M. E.; Taegtmeyer, H.
Western diet, but not high fat diet, causes derangements of fatty acid metabolism and contractile dysfunction in the heart of Wistar rats, 406:457
Wilson, I. B. H. *See* Rendić, D.
Wilson, K. *See* Vosper, J. M. D.
Wilson, M. T. *See* Silaghi-Dumitrescu, R.
Winayanuwattikun, P.
——; Ketterman, A. J.
Glutamate-64, a newly identified residue of the functionally conserved electron-sharing network contributes to catalysis and structural integrity of glutathione transferases, 402:339
Winder, S. J. *See* Hnia, K.
Windheim, M.
——; Lang, C.; Peggie, M.; Plater, L. A.; Cohen, P.
Molecular mechanisms involved in the regulation of cytokine production by muramyl dipeptide, 404:179
Windhorst, S. *See* Brehm, M. A.
Winter, H. C. *See* Van Damme, E. J. M.
Wise, H. *See* Vosper, J. M. D.
Witherden, A. *See* Wahab, N.
Withers-Martinez, C. *See* Bowyer, P. W.
Witte, J. F. *See* Bateman, R. L.
Wohlfahrt, G. *See* Suchanek, M.
Wolterink-van Loo, S.
——; van Eerde, A.; Siemerink, M. A. J.; Akerboom, J.; Dijkstra, B. W.; van der Oost, J.
Biochemical and structural exploration of the catalytic capacity of *Sulfolobus* KDG aldolases, 403:421
Wong, P. *See* Li, C.; Yu, S.
Wong, S.
——; Weber, J. D.
Deacetylation of the retinoblastoma tumour suppressor protein by SIRT1, 407:451
Wongsantichon, J. *See* Piromjitpong, J.
Wu Lee, Y.-H. *See* Lin, Y.-C.
Wu, C. *See* DeJournett, R. E.
Wu, C.-F. *See* Hsieh, Y.-C.
Wu, H.-L. *See* Ishii, S.
Wu, J. *See* Song, Y.
Wu, W. *See* Browne, G. J.
Wu, X. *See* Cong, L.
Wu, Y. I.
——; Munshi, H. G.; Snipas, S. J.; Salvesen, G. S.; Fridman, R.; Stack, M. S.
Activation-coupled membrane-type 1 matrix metalloproteinase membrane trafficking, 407:171
Wu, Y.-T. *See* Faiola, F.
Wuerges, J.
——; Geremia, S.; Randaccio, L.
Structural study on ligand specificity of human vitamin B12 transporters, 403:431
Wullschleger, S. *See* Pearce, L. R.
Wunderink, H. F. *See* Bryantsev, A. L.
Wygrecka, M. *See* Muhl, L.

Xiang, Y. *See* Tan, Y.-r.
Xiao, F. *See* Li, C.; Yu, S.
Xiao, G. *See* Yu, S.
Xiao, L.
——; Rao, J. N.; Zou, T.; Liu, L.; Marasa, B. S.; Chen, J.; Turner, D. J.; Passaniti, A.; Wang, J.-Y.
Induced JunD in intestinal epithelial cells represses CDK4 transcription through its proximal promoter region following polyamine depletion, 403:573
Xu, G. *See* Li, B.
Xu, L.-Y. *See* Fang, W.-K.

© 2008 Biochemical Society

Xu, X.-M.
——; Carlson, B. A.; Irons, R.; Mix, H.; Zhong, N.; Gladyshev, V. N.; Hatfield, D. L.
Selenophosphate synthetase 2 is essential for selenoprotein biosynthesis, 404:115
Xu, X.
——; Chen, Z.; Wang, Y.; Bonewald, L.; Steffensen, B.
Inhibition of MMP-2 gelatinolysis by targeting exodomain–substrate interactions, 406:147

Yablonski, D. *See* Weisz Hubsman, M.
Yagüe, E. *See* Randle, R. A.
Yamada, Y. *See* Nishida, T.
Yamaguchi, F. *See* Song, T.
Yamairi, F. *See* Makise, M.
Yamamoto, H. *See* Kurayoshi, M.
Yamamoto, M. *See* Zhang, J.; Zhang, Y.
Yamamoto, Y. *See* Kodama, S.
Yaman, I. *See* Lopez, A. B.
Yamazaki, S. *See* Matsuo, S.
Yamazaki, Y.
——; Horibata, Y.; Nagatsuka, Y.; Hirabayashi, Y.; Hashikawa, T.
Fucoganglioside α-fucosyl(α-galactosyl)-G_{M1}: a novel member of lipid membrane microdomain components involved in PC12 cell neuritogenesis, 407:31
Yan, D.
——; Zhang, Y.; Niu, L.; Yuan, Y.; Cao, X.
Identification and characterization of two closely related histone H4 arginine 3 methyltransferases in *Arabidopsis thaliana*, 408:113
Yan, H. *See* Yu, S.
Yan, L. *See* Findlay, G. M.
Yaney, G. C. *See* Heart, E.
Yang, C.
——; Kazanietz, M. G.
Chimaerins: GAPs that bridge diacylglycerol signalling and the small G-protein Rac, 403:1, 403:615 (Correction)
Yang, H. *See* Fish, R. J.; Ou, X.
Yang, H.-H. *See* Chao, M.-R.
Yang, H.-W. *See* Huang, J.-H.
Yang, J. *See* Wan, L.
Yang, L. *See* Qureshi, S. H.
Yang, S. *See* Jiang, S.
Yang, T. *See* Tan, Y.-r.
Yang, X. *See* Soundararajan, M.
Yang, Y. *See* Jiang, S.
Yasuda, K. *See* Ishii, S.
Yasuda, S.
——; Idell, S.; Liu, M.-C.
Generation and release of nitrotyrosine *O*-sulfate by HepG2 human hepatoma cells upon SIN-1 stimulation: identification of SULT1A3 as the enzyme responsible, 401:497
Yasunaga, T. *See* Wachi, H.
Yazawa, M. *See* Graidist, P.
Ycaza, J. E. *See* Kubli, D. A.
Yegneswaran, S. *See* Qureshi, S. H.
Yeh, T.-Y. J.
——; Sbodio, J. I.; Tsun, Z.-Y.; Luo, B.; Chi, N.-W.
Insulin-stimulated exocytosis of GLUT4 is enhanced by IRAP and its partner tankyrase, 402:279
Yen, C.-C. *See* Chao, M.-R.
Yin, C. *See* Liu, M.
Yin, S. *See* Li, C.; Yu, S.
Ylä-Herttuala, S. *See* Helppolainen, S. H.
Yokosawa, H. *See* Minami, R.
Yoon, C. M. *See* Han, K. Y.
Yoon, Y. J. *See* Han, K. Y.
Yoshida, T. *See* Shindo, S.
Yoshikawa, K. *See* Senda, M.
You, G. *See* Hong, M.
Young, M. E. *See* Wilson, C. R.
Yowe, D. *See* Li, J.
Yu, G. *See* Teran-Garcia, M.
Yu, L. *See* Brown, J. M.
Yu, R.-h. *See* Khan, A. G.
Yu, S.
——; Yin, S.; Li, C.; Wong, P.; Chang, B.; Xiao, F.; Kang, S.-C.; Yan, H.; Xiao, G.; Tien, P.; Sy, M.-S.
Aggregation of prion protein with insertion mutations is proportional to the number of inserts, 403:343
Yu, W.-H. *See* Lu, S.-C.
Yuan, Y. *See* Yan, D.
Yun, C.-W. *See* Park, Y.-S.
Yun-Choi, H. S. *See* Jung, S. H.
Yurchenco, P. D. *See* Myers, J. C.

Zabot, M.-T. *See* Mousson de Camaret, B.
Zahler, S. *See* Ries, C.
Zaidi, A. *See* Agbas, A.
Zancan, P. *See* Costa Leite, T.
Zanchetti, G.
——; Colombi, P.; Manzoni, M.; Anastasia, L.; Caimi, L.; Borsani, G.; Venerando, B.; Tettamanti, G.; Preti, A.; Monti, E.; Bresciani, R.
Sialidase NEU3 is a peripheral membrane protein localized on the cell surface and in endosomal structures, 408:211
Zannis, V. I. *See* Koukos, G.; Kypreos, K. E.
Zeeman, S. C.
——; Smith, S. M.; Smith, A. M.
The diurnal metabolism of leaf starch, 401:13
Zeller, M.-E.
——; Csanadi, A.; Miczak, A.; Rose, T.; Bizebard, T.; Kaberdin, V. R.
Quaternary structure and biochemical properties of mycobacterial RNase E/G, 403:207
Zerp, S. *See* van der Luit, A. H.
Zhang, D.
——; Boulware, M. J.; Pendleton, M. R.; Nogi, T.; Marchant, J. S.
The inositol 1,4,5-trisphosphate receptor (*Itpr*) gene family in *Xenopus*: identification of type 2 and type 3 inositol 1,4,5-trisphosphate receptor subtypes, 404:383
Zhang, J.
——; Hosoya, T.; Maruyama, A.; Nishikawa, K.; Maher, J. M.; Ohta, T.; Motohashi, H.; Fukamizu, A.; Shibahara, S.; Itoh, K.; Yamamoto, M.
Nrf2 Neh5 domain is differentially utilized in the transactivation of cytoprotective genes, 404:459
Zhang, K. *See* Faiola, F.
Zhang, W. *See* Jiang, S.
Zhang, Y. *See* Yan, D.
——; Lucocq, J. M.; Yamamoto, M.; Hayes, J. D.
The NHB1 (N-terminal homology box 1) sequence in transcription factor Nrf1 is required to anchor it to the endoplasmic reticulum and also to enable its asparagine-glycosylation, 408:161
Zhang, Z. *See* Liu, M.
Zhao, A. Z. *See* Cong, L.
Zhao, F.-Q. *See* Dong, B.
Zhao, J.
——; Izumi, T.; Nunomura, K.; Satoh, S.; Watanabe, S.
MARCKS-like protein, a membrane protein identified for its expression in developing neural retina, plays a role in regulating retinal cell proliferation, 408:51
Zhao, Q. *See* Huang, J.
Zhen, Y. *See* Liu, M.
Zheng, L.
——; Iohara, K.; Ishikawa, M.; Into, T.; Takano-Yamamoto, T.; Matsushita, K.; Nakashima, M.
Runx3 negatively regulates Osterix expression in dental pulp cells, 405:69
Zhong, N. *See* Xu, X.-M.
Zhou, J. *See* Li, B.
Zhou, S.
——; DeWille, J. W.
Proteasome-mediated CCAAT/enhancer-binding protein δ (C/EBPδ) degradation is ubiquitin-independent, 405:341
Zhou, X. *See* Brehm, M. A.
Zhu, H. *See* Larade, K.
Zhu, W. *See* Timmer, J. C.
Zhu, Y. X. *See* Pearse, I.
Ziegler, M. *See* Pollak, N.
Zifarelli, G. *See* Macías, M. J.
Zilliacus, J. *See* Jakobsson, T.
Zito, F. *See* Park, K.-H.
Zoccarato, F.
——; Cavallini, L.; Bortolami, S.; Alexandre, A.
Succinate modulation of H_2O_2 release at NADH:ubiquinone oxidoreductase (Complex I) in brain mitochondria, 406:125
Zollo, M. *See* Middelhaufe, S.
Zorzano, A. *See* Macías, M. J.
Zou, T. *See* Xiao, L.
Zou, Y.
——; Wang, H.; Shapiro, J. L.; Okamoto, C. T.; Brookes, S. J.; Lyngstadaas, S. P.; Snead, M. L.; Paine, M. L.
Determination of protein regions responsible for interactions of amelogenin with CD63 and LAMP1, 408:347
Zouiten, D. *See* Hnia, K.
Zvelebil, M. J. *See* Gharbi, S. I.
Zylberg, J.
——; Ecke, D.; Fischer, B.; Reiser, G.
Structure and ligand-binding site characteristics of the human $P2Y_{11}$ nucleotide receptor deduced from computational modelling and mutational analysis, 405:277

© 2008 Biochemical Society

Keyword Index

VOLUMES 401–408 (2007)

AAA$^+$ ATPase, 401:607
abasic site, 402:321
absorption, 408:e1
acetaldehyde, 402:291
acetazolamide, 407:61
acetylation, 402:125, 404:289, 407:451, 408:317
acetyl-CoA, 406:399
acid sphingomyelinase, 405:77
acidic organelles, 401:167
acidocalcisome, 407:161
aconitase, 405:173
Acridine Orange, 402:301
actin, 404:459, 401:711
action potential, 404:227
activated Factor VIIa (FVIIa), 405:429
activating transcription factor, 402:163
activating transcription factor 3 (ATF3), 401:299, 401:559
activation domain, 403:511
activator protein-1 (AP-1), 402:135, 403:501, 403:573
activator protein 2α (AP-2α), 405:131
active-site residue, 402:339
active-site-specific chaperone (ASSC), 406:285
actomyosin contraction, 404:23
acute myeloid leukaemia, 405:547
acyl-CoA-binding protein (ACBP), 407:219
adenine nucleotide, 408:327
adenine nucleotide translocase (ANT), 407:129
adeno-associated virus (AAV), 403:305
adenocarcinoma, 402:81
S-adenosylmethionine, 401:87
adenovirus, 406:167
adenovirus-mediated gene transfer, 403:359
adenylate cyclase, 401:309, 402:405
adherens junction, 402:291
adhesion, 405:417
adhesion molecule, 402:471
adipocyte, 402:279, 403:243, 403:353
adiponectin, 403:519
a disintegrin and metalloproteinase (ADAM), 401:121
ADP-ribosyl transferase activity, 404:1
ADP-ribosylation, 402:205
ADP-ribosylation factor (Arf), 402:439
adrenaline, 403:473
β_2-adrenoceptor, 404:71
adult T-cell leukaemia (ATL), 406:317
advanced glycation end-product (AGE), 408:251
affinity labelling, 403:71
African trypanosome, 402:43
aggregation, 408:131, 404:299, 403:343
aging, 407:321, 405:583
AICA riboside, 404:499
airway epithelial cell, 402:261
airway hyperresponsiveness, 405:131
A-kinase-anchoring protein (AKAP), 406:389
Akt, 406:57, 406:317
Akt/protein kinase B (PKB), 407:231
Akt substrate of 160 kDa (AS160), 407:231
alanine:glyoxylate aminotransferase, 408:39
alcohol, 404:97
alcohol dehydrogenase, 401:459, 404:421
aldo-keto reductase, 405:95
allele-specific suppressor, 406:265
allergy, 402:105
allosteric activator, 404:141
allosteric site, 401:39
alternative promoter, 406:491, 407:461
alternative splicing, 401:185, 401:317, 405:21
alternative transcription, 403:493
Alzheimer's disease, 404:63, 404:309, 407:383, 407:435
amelogenin, 408:347
amidohydrolase, 401:659
amidotransferase, 404:121
L-amino acid, 404:141
amino acid response element (AARE), 401:299, 402:163
amino acid-sensing, 401:299
amino acid signalling, 403:e1, 403:13
amino acid transporter, 402:163
L-amino acid transporter (L-AT), 403:283
γ-aminobutyric acid (GABA), 401:429
aminopeptidase, 403:527
aminopeptidase N (APN), 405:287
ammonification, 406:19
AMP-activated protein kinase (AMPK), 401:735, 403:139, 403:473, 403:501, 404:499, 405:85
amphidiploid, 403:493
amyloid, 401:129, 407:435, 408:131
amyloid-β peptide, 402:581, 404:63, 404:309
β-amyloid precursor protein (APP), 402:17, 402:581
amylopectin, 401:13
anaemia, 402:219, 403:59
analytical ultracentrifugation, 406:479
anandamide, 404:97
Angeli's salt, 403:283
angiogenesis, 406:49
anion activation, 405:61
ankyrin repeat, 402:187
Anopheles dirus, 401:635, 402:339
anthrax, 402:405
anti-amyloidogenic drug, 408:131
antibacterial protein, 402:93
antibody, 401:721
antibody blocking, 403:343
anti-cancer drugs, 408:297
anticoagulant, 405:351
anti-(horseradish peroxidase), 402:105
antimicrobial peptide, 406:297, 407:267
antimicrobial protein, 402:93
antioxidant, 401:1, 404:467, 407:321
antioxidant defence, 405:77
antioxidant-responsive element (ARE), 404:459
antipeptidase function, 405:455
antithrombin III (AT III), 405:429
anti-(tumour necrosis factor-α) therapy (anti-TNF-α therapy), 406:237
apolipoprotein, 402:117
apolipoprotein A-I (apoA-I), 406:167
apolipoprotein E (apoE), 403:359
apoptosis, 401:65, 401:175, 402:367, 403:89, 404:317, 405:11, 405:407, 405:495, 405:591, 405:617, 406:1, 406:215, 407:355, 407:79, 408:181
apoptosis-linked-gene-2 product (ALG-2)-interacting protein X (Alix), 401:521
apoptosis resistance, 401:541
apoptosis signal-regulating kinase 1 (ASK1), 405:591
apoptosome, 405:e1
apoptotic protease-activating factor 1 (Apaf-1), 405:e1
aptamer, 403:129
Arabidopsis thaliana, 401:13, 401:287, 401:613, 405:191, 405:523, 406:399, 406:415, 408:113
Arabidopsis thaliana abi1 mutant, 404:247
α-L-arabinofuranosidase, 401:551
arachidonic acid, 403:109, 406:175
arachidonoylethanolamide (AEA), 404:97
Archaea, 408:87
Arf GAP with SH3, Ank repeat and pH domains 1 (ASAP1), 402:439
arginine, 403:381
L-arginine, 401:235
arginine methylation, 408:113
aromatic residue, 406:209
arrestin, 408:221
β-arrestin, 404:71
artemin, 404:131
aryl hydrocarbon receptor (AHR) target gene, 406:343
AS252424, 404:449
ascorbate, 407:419
ascorbate peroxidase, 408:355
asFP595, 402:35
L-asparaginase, 404:337
Aspergillus oryzae, 405:533
assembly, 408:287
associated molecule with the Src homology 3 domain of signal transducing adaptor molecule (AMSH), 401:521
astacin, 406:355
atherosclerosis, 404:45, 404:191, 405:95, 406:203, 407:79
atomic force microscopy, 404:63
ATP7B, 401:143
ATPase, 403:71
ATP-binding-cassette protein (ABC protein), 406:31
ATP-binding cassette transporter A1 (ABCA1), 402:117, 403:359, 403:409, 406:167
ATP-binding-cassette transporter (ABC transporter), 401:613
ATP-binding site, 405:331
atypical teratoid/rhabdoid tumour (AT/RT), 406:57
Aurora-A, 403:119
Aurora-A kinase interacting protein (AURKAIP), 403:119
autoantibody, 402:219
autophagy, 403:261
autophosphorylation, 403:603
auxin permease (AUX1), 401:613
Av3 toxin, 406:41
avidin–biotin technology, 405:397
3′-azido-3′-deoxythymidine (AZT), 405:165
azurophilic granule, 402:229

baby-hamster kidney cell (BHK cell), 406:85
Bacillus cereus, 401:197
Bacillus megaterium, 407:189
Bacillus subtilis, 407:397
αB-crystallin, 401:129
bacterial avidin, 405:397
bacterial glutathione transferase (bacterial GST), 403:267

© 2008 Biochemical Society

bacterial haemoglobin, 407:15
bacterial phosphatase, 406:13
bacteriochlorophyll biosynthesis, 406:469
bacteriophage, 405:465
Bak, 405:407
Barrett's metaplasia, 402:81
basal cell adhesion molecule (BCAM), 402:311
base-assisted deprotonation model, 406:247
basement membrane, 404:535, 404:e7
basic fibroblast growth factor (bFGF), 406:49
basic helix–loop–helix (bHLH) protein, 405:191
basic leucine zipper domain (bZip), 408:69
basic leucine zipper protein (bZIP protein), 405:243
Bax, 405:407
BchM, 406:469
Bcl-2-associated athanogene (BAG), 405:495
benzothiazole, 408:173
betaine–homocysteine methyltransferase (BHMT), 401:87
BI-D1870, 401:29
bidirectional regulation, 408:327
bile acid, 402:81
biliverdin-IXα reductase (BVR-A), 405:61
bimolecular fluorescence complementation (BiFC), 407:363
binding epitope, 401:269
binding kinetics, 407:331
binding specificity, 406:209
bioenergetics, 404:e3
bioluminescence resonance energy transfer (BRET), 403:603
biotin-binding protein, 405:397
biotinylation, 401:515
bis-2-(5-phenylacetamido-1,2,4-thiadiazol-2-yl)ethyl sulfide (BPTES), 406:407
bisindolylmaleimide I, 405:533
bitter taste, 403:537
blastocyst, 404:317
bleomycin hydrolase, 401:421
blood, 405:503
blood coagulation, 405:351
blood lipid, 401:727
blood substitute, 403:189
Bnip3, 405:407
bombesin receptor subtype-3 (BRS-3), 405:131
bone and soft-tissue tumour, 406:519
bone morphogenetic protein 2 (BMP2), 405:69
Bordetella/Alcaligenes, 401:659
bovine uterus, 406:175
Brahma-related gene 1 (BRG1), 404:459
brain, 401:65, 405:51
brain mitochondrion, 406:125
branched-chain amino acid (BCAA), 407:113
Brd4, 404:15
breast cancer cell invasion, 403:31
bromamine, 401:587
brominated flame retardant, 408:407
bromodomain, 402:125
brown adipose tissue, 408:259
Brønsted catalysis, 403:441
Brønsted plot, 401:551
Burkholderia cepacia, 407:207
butylated hydroxytoluene (BHT), 407:129
bystin gene (*BYSL*), 404:373

C2BBe1 cell line, 407:101
Ca^{2+}/calmodulin-dependent protein kinase kinase (CaMKK), 403:139
Ca^{2+} channel, 404:383
Ca^{2+} signalling, 404:383
cachexia, 407:113
Caenorhabditis elegans, 404:439
caeruloplasmin, 402:135
caffeine, 401:309
calbindin D_{9K}, 405:199
calcein, 403:261
calcineurin, 405:51
calcium, 401:49, 401:167, 402:71, 403:31, 403:483, 404:299, 405:199, 405:597, 407:303, 408:181
calcium binding, 401:353
calcium channel, 406:309
calcium-independent phospholipase A_2, 406:427
calcium oscillation, 403:197
calcium release channel, 402:349
calcium-sensing receptor, 404:141
calcium signalling, 402:205, 402:301, 404:227, 408:407
calcium store, 405:233
calcium transport, 406:365
calmodulin, 402:71, 404:31, 405:199
caloric restriction, 404:1
cAMP, 401:309, 402:153, 403:519, 404:71, 405:181, 405:597, 406:383
cAMP-dependent protein kinase (PKA), 403:473, 406:389
cAMP phosphodiesterase, 408:193
cAMP-response element-binding protein (CREB), 402:491, 407:373
cAMP-response-element-binding protein-binding protein (CBP), 404:459
cAMP-responsive element binding protein (CREB), 408:69
cancer, 401:1, 401:269, 404:373, 405:261, 405:513, 407:461
Candida albicans, 404:365
cannabinoid, 404:97
capillary electrophoresis (CE), 407:207
N-carbamoyl-D-amino acid amidohydrolase, 402:429
carbohydrate metabolism, 401:13
carbohydrate-active enzyme, 403:21
carbohydrate-binding module, 403:21, 406:209
carbohydrate-binding specificity, 404:51
carbon–carbon bond formation, 403:421
carbonic anhydrase, 402:219, 407:61
carboxyatractylate (CAT), 407:129
γ-carboxyglutamate, 404:413
γ-carboxyglutamic acid, 407:427
γ-carboxyglutamic acid (Gla)-rich domain (Gla domain), 405:351
N^{ε}-(carboxymethyl)lysine, 408:251
carboxypeptidase, 401:e5
cardiac arrhythmia, 404:431
cardiac function, 406:457
cardiac metabolism, 406:457
cardiolipin, 401:103
cardiomyopathy, 401:97
carnitine palmitoyltransferase, 403:511
λ-carrageenan, 404:105
casein kinase 1, 407:303
casein kinase 1δ (CK1δ), 406:389
β-casein promoter, 401:57
caspase, 405:115
caspase 3, 403:89, 405:e1, 405:11
caspase 9, 405:e1, 405:11
catalysis, 404:421
catalytic activity, 405:465
catalytic antibody, 401:721
catalytic mechanism, 401:551, 402:339
catalytically active site, 407:397
cathepsin C, 401:645
cathepsin G, 404:81, 404:e1
cation co-transporter, 405:85
cation transport, 401:623
caudal homeobox protein 2 (Cdx2), 408:317
CCAAT/enhancer-binding protein α (C/EBPα), 402:567
CCAAT/enhancer-binding protein δ (C/EBPδ), 405:341
CCAAT/enhancer-binding protein (C/EBP), 401:299, 405:605, 408:277
CCCTC-binding factor (CTCF), 408:267
CD63, 408:347
Cdc13, 403:289
Cdc42 (cell division cycle 42) homologous protein (Chp), 404:487
CDC-like kinase 2 (CLK2), 406:389
cDNA cloning, 408:149
C1 domain, 406:223
CD spectroscopy, 401:533, 404:393
CD4 T-cell, 402:471
β-cell, 403:197, 404:467
cell cycle, 401:247, 403:119, 405:569, 406:427
cell death, 407:121, 408:181
cell-death-inducing DNA-fragmentation-factor-45-like effector (CIDE), 408:259
cell differentiation, 404:169
cell division cycle 34 (Cdc34), 405:569
cell division cycle 42 (Cdc42), 404:23
cell growth, 403:e1, 403:13
cell migration, 405:417
cell motility, 408:7
cell-penetrating peptide, 403:335, 407:285
cell polarity, 401:377
cell proliferation, 406:57, 408:51
cell spreading, 405:417
cell survival, 406:131, 408:7
cell-surface-binding protein, 407:61
cell-wall mannan, 404:365
cellular chaperone, 406:e1
cellular localization, 405:21
cellular motility, 401:397
cellulase, 407:293
centaurin γ-1 (CENTG1), 401:679
centerin, 405:489
central nervous system, 406:57
ceramide, 401:205, 405:157, 407:383
ceramide synthase, 401:205
cGMP, 402:153
cGMP biosensor, 407:69
cGMP-dependent protein kinase (cGK), 407:69
Chagas disease, 401:279, 401:399, 401:e5
chaperone, 401:129, 405:233
chaperone activity, 407:407, 408:251
chelerythrine, 405:533
chemical proteomic strategy, 404:15
chemical rescue, 403:441
chemotaxis, 402:153
chimaeric Ty1/HIV-1 reverse transcriptase phenotypic assay, 404:151
chimaerin, 403:1
chloroplast, 401:287, 403:e13
chloroplast membrane, 401:727
cholecystokinin (CCK), 401:727
cholesterol, 401:541, 401:597, 402:117, 403:167, 405:473
cholesterol efflux, 406:273
cholesterol transport, 408:1, 408:e1
chondroitin polymerization, 403:545
chondroitin sulfate, 403:545, 403:553, 404:535, 406:97
chromatin immunoprecipitation, 406:437
chromatin, 402:71, 404:289, 405:541
chromatin immunoprecipitation (ChIP), 406:343
chromatin structure, 408:267
chromium, 402:261
chromobox 4 (Cbx4), 405:369
chromophore, 402:35
chromosomal translocation, 404:197, 406:519
chymase, 403:49
Cidea, 408:259
circadian clock, 402:525

© 2008 Biochemical Society

circular dichroism, 403:267
citrinin, 404:317
c-Jun N-terminal kinase (JNK), 401:65, 405:617, 407:435
CK2 protein kinase, 408:363
clathrin, 402:17
ClC-1 chloride channel, 403:79
cleavage stimulation factor (CstF), 401:651
coactivator, 404:197, 408:69
coagulation, 405:429
cobalamin, 403:431
cobalt, 403:527
cobalt substitution, 401:197
codon optimization, 408:173
cofactor, 404:45
cofactor addition, 404:477
CO_2 fixation, 404:517
co-immunoprecipitation, 401:581, 407:363
collagen, 404:e7, 406:147
collagen-binding domain (CBD), 406:147
collagen-induced arthritis, 406:237
co-lipase, 401:727
colon, 404:207
COMATOSE, 406:399
combined chemotherapy, 405:165
common gating, 403:79
comparative genomics, 408:395
comparative modelling, 403:431
complement component C3, 407:23
complex formation, 401:217
CompoundJJ, 403:391
Condylactis gigantea (giant Caribbean sea anemone), 406:67
confocal microscopy, 404:257, 408:375
conformation-dependent immunoassay, 401:475
conformational change, 401:353
conformational disease, 406:e1
connective tissue growth factor (CTGF), 406:131
connexin, 408:375
conopressin, 404:413
Conus villepinii, 404:413
conserved active-site residue, 406:247
conserved water, 401:421
constitutive androstane receptor (CAR), 401:735
co-operativity, 405:199
copper binding, 404:393
copper biosensor, 407:49
copper cluster, 408:139
copper homoeostasis, 401:569
copper translocation, 401:143
copper transport, 402:e1
copper transporter 1 (Ctr1), 407:49
copper transporter 2 (Ctr2), 407:49
copper uptake, 407:49
copper, 402:135, 402:241, 407:435
co-regulatory protein, 405:31
coronary heart disease, 406:203
corrector, 406:257
COS-7 cell, 402:525
co-sedimentation, 401:97
co-transporter activity, 405:85
coupling efficiency, 404:345
Cox17, 408:139
cross-link, 402:143
cross-linking, 403:313
cruciferin, 404:247
Cry receptor, 405:287
cryptochrome (CRY), 402:525
α-crystallin, 408:251
crystallography, 403:267
crystal structure, 401:421, 402:251, 402:419, 407:23
Csk (C-terminal Src kinase)-binding protein, 403:275
C-terminal sequence, 401:701
c-type cytochrome, 408:355
Cu^{2+}-dependent endocytosis, 402:17
cupredoxin, 401:111
Cu,Zn-superoxide dismutase (SOD1), 405:173
Cyanidiaceae, 406:325
cyanobacterium, 405:139, 406:115
cybrid, 404:345, 404:e3
cyclic ADP-ribose (cADPR), 402:301
cyclic nucleotide, 405:181
cyclic peptide, 408:363
cyclin E, 401:247
cyclin-dependent kinase 2 (cdk2), 401:247
cyclophilin, 401:287
cystathionine β-synthetase domain (CBS domain), 408:327
cystatin superfamily, 407:461
cysteine oxidation, 407:89
cysteine protease, 401:421, 401:645
cysteine protease inhibitor, 401:325
cystic fibrosis transmembrane conductance regulator, 405:181
cystic fibrosis transmembrane conductance regulator (CFTR), 401:581, 406:e1, 406:257, 408:267, 408:317
cytochrome, 406:19
cytochrome b_5, 401:701
cytochrome *c*, 405:115, 407:179
cytochrome *c* oxidase, 405:1, 405:223, 405:e3
cytochrome-*c* oxidase copper chaperone, 408:139
cytochrome P450, 401:735, 403:109, 406:343
cytokine-inducible Src homology 2 protein (CIS), 401:257
cytokine induction, 406:297
cytokine receptor, 401:257
cytomegalovirus, 407:331
cytosolic aconitase, 405:523
cytotoxic stress, 406:445
cytotoxicity, 407:285

deacetylase, 406:511, 407:451, 408:105
deacetylase activity, 404:1
defensin, 407:267
deglycation, 406:139
dehydrogenase/reductase (SDR family) member 10, 402:419
delivery vector, 407:285
Delta class GST, 406:247
Dengue fever virus, 401:743
denitrification, 401:111
dense tubular system (DST), 401:167
dental pulp cell (DPC), 405:69
1-deoxygalactonojirimycin (DGJ), 406:285
deoxyguanosine kinase, 402:377
deoxynucleotide, 407:331
15-deoxyspergualin, 401:411
deoxyxylulose 5-phosphate, 407:1
dermal fibroblast, 404:327
desensitization, 404:71
designer transcription factor, 403:177
detergent, 403:183
detoxification, 406:115
development, 402:153
DGA1 (diacylglycerol acyltransferase gene), 408:61
DHRS10, 402:419
diabetic nephropathy (DN), 406:131
diacylglycerol, 405:331
diacylglycerol (DAG), 403:1, 406:157, 406:223
Dictyostelium discoideum, 401:309, 402:153
diet-induced obesity, 406:457
diethylamine NONOate (DEANO), 403:283
differential scanning calorimetry, 406:479
α-difluoromethylornithine, 403:573, 407:243
digestive vacuole, 407:343
dihydropyridine receptor (DHPR), 404:89
dimerization, 407:199
2,4-dinitrophenol (DNP), 407:129
dioxygenase, 401:227
dipeptidyl peptidase I (DPPI), 401:645
directed evolution, 402:429, 404:517
directional sensing, 401:377
disease-causing mutation, 408:39
disulfide bond, 404:403, 405:173
divalent metal-ion transporter 1 (DMT1), 403:59
DNA alkylation, 402:483
DNA binding, 408:387
DNA-binding activity, 407:331
DNA binding protein, 402:187
DNA damage, 405:115, 406:437
DNA delivery, 406:185
DNA helicase, 408:87
DNA integrity, 402:175
DNA ligase III, 402:175
DNA methyltransferase 3a (Dnmt3a), 405:369
DNA minicircle, 402:321
DNA-pairing activity, 408:87
DNA polymerase α-primase (Pol), 407:313
DNA polymerase γ, 402:175
DNA recombination, 408:87
DNA repair, 401:1
DNA replication, 402:397, 403:289
DNase I-hypersensitive site, 408:267
DNA topoisomerase II, 403:235
D1 protein, 406:415
docosahexaenoic acid, 406:77
domain organization, 407:23
domain–domain interaction, 401:333
dopamine, 401:497
double-stranded-RNA-dependent protein kinase (PKR), 407:113
doxorubicin (DOX), 406:215
Dronpa, 402:35
drug-binding pocket, 401:597
drug-binding site, 406:257
drug discovery, 408:297
drug resistance, 406:445
drug target, 401:e5, 405:261
drug transport, 406:31
DT40 B-lymphocytes, 401:505
dual-specificity, 406:13
Duchenne muscular dystrophy, 401:667
dystroglycan, 401:667
dystrophin, 401:667

E1 and E2 conformation, 408:407
E2F1, 401:155
early onset torsion dystonia, 401:607
edelfosine, 401:541
EF-hand, 401:353, 405:199
EGL nine homologe (EGLN), 408:00
EGL nine homologue (EGLN), 408:231, 408:e5
eicosanoid, 403:157
eicosapentaenoic acid, 403:109
eIF2 phosphorylation, 402:163
E26 transformation-specific-1 (Ets-1), 405:481
elastic fibre assembly, 402:63
elastin, 402:63
electron microscopy, 408:375
electron sharing network, 402:339
electron tomography, 404:e7
electron transfer, 406:125
electron transport, 406:19
electrospray ionization mass spectrometry, 405:95
elongation factor 1α (EF1A), 405:495
E3 ligase, 405:369
embryo implantation, 404:373
embryonic, 404:235

© 2008 Biochemical Society

embryonic development, 404:317
enamel matrix, 408:347
5′-end-dependence, 403:207
endo-galactanase, 404:105
endocytosis, 403:335, 404:525, 405:147
endometase, 403:31
endometrium, 406:175
endoplasmic reticulum (ER), 401:607, 401:701, 404:467, 405:233, 408:161
endoplasmic-reticulum-associated degradation (ERAD), 404:353, 404:509, 406:e1, 406:285
endoplasmic reticulum (ER) chaperone, 402:581
endoplasmic reticulum (ER) retention signal, 401:325
endoplasmic reticulum stress, 401:87
endosialidase (endo-*N*-acetylneuraminidase), 405:465
endosome, 408:211, 408:287
endostatin, 404:e7
endothelial cell, 405:597, 406:49
energy metabolism, 403:139
enterostatin, 401:727
environmental stress, 408:241
enzymatic assay, 402:377
enzyme activity, 402:331
enzyme catalysis, 405:445, 406:247
enzyme engineering, 404:337
enzyme kinetics, 402:575, 408:149
enzyme-specific inhibitor, 401:309
eosinophil peroxidase, 401:587
EphB receptor, 404:23
epidermal growth factor (EGF), 407:427
2-epimerase, 405:123
epithelium, 407:243
epitope, 401:475
epitope mapping, 401:667
EPR, 403:527, 404:393, 408:429
Equilibrium Model, 402:331
equinatoxin II, 403:167
Ero1p, 404:403
Erv2p, 404:403
erythrocyte, 402:311
Escherichia coli, 403:207, 404:477
esterase, 401:659
E26 transformation-specific-1 (Ets-1), 405:481
E2 ubiquitin-conjugating enzyme, 405:569
euchromatin, 408:335
eukaryotic chemotaxsis, 401:377
eukaryotic elongation factor 2 (eEF2), 407:113
eukaryotic initiation factor 2α, 401:411
eukaryotic initiation factor-4E (eIF4E), 406:445, 407:113
eukaryotic-initiation factor 4E-binding protein 1 (4E-BP1), 407:113
evolution, 406:85, 408:395
evolutionary tinkering, 403:e13
EWS–Oct-4 fusion protein, 406:519
EXAFS, 408:139
excitation–contraction coupling, 401:333, 406:309, 406:365
exercise, 403:473
exocytosis, 402:229, 403:483, 404:525
exodomain, 406:147
exonuclease-deficient polymerase, 402:321
experimental emphysema, 405:455
exported, 408:417
expressed in tumorigenic astrocytes (SETA), 401:521
expression, 408:417
extended lipid anchorage, 407:179
extracellular calcium, 404:141
extracellular matrix, 401:587, 401:79, 404:535, 404:e7, 405:299
extracellular-signal-regulated kinase (ERK), 401:689, 402:491, 405:e5, 405:559
extracellular-signal-regulated kinase 1/2 (ERK1/2), 401:175, 404:141
extracellular-signal-regulated kinase 5 (ERK5), 408:7
extraskeletal myxoid chondrosarcoma, 404:197
ezetimibe, 406:273, 408:1
ezrin/radixin/moesin family of proteins (ERM proteins), 405:307

FAA3 (acyl-CoA synthase gene), 408:61
Fabry disease, 406:285
Factor IX-binding protein (IX-bp), 405:351
Factor VII-activating protease (FSAP), 404:45, 404:191
Factor X, 405:351
Factor Xa, 407:427
family GH-13, 403:441
farnesoid X receptor, 407:461
Fas, 403:89, 405:115
fascin-like domain, 408:241
fat body, 405:287
fatty acid, 401:365, 407:219
fatty acid amidohydrolase (FAAH), 404:97
fatty acid elongation, 401:205
fatty acid synthesis, 403:473
fatty acid synthase (FASN), 402:591
feedback loop, 405:11
ferric-ion-binding protein A (FbpA), 403:43, 404:217
ferritin, 405:523
ferryl, 403:391
fertilization, 401:79
fetuin-B, 407:461
fibril, 404:e7
fibrillarin 2, 408:113
fibrinogen, 401:753, 402:503
fibroblast, 406:77
fibronectin domain, 403:603
fibulin-5, 405:417
flavin mononucleotide (FMN), 407:419
flavin-containing mono-oxygenase 1 (FMO1), 406:491
flavivirus, 401:743
flavocytochrome b_{558}, 403:97
flotillin, 403:313
fluorescence, 408:29
fluorescence microscopy, 403:335
fluorescence resonance energy transfer (FRET), 407:69, 407:427
fluorescence spectroscopy, 407:331
fluorinated surfactant, 403:183
7-fluorobenz-2-oxa-1,3-diazole-4-sulfonamide (ABD-F), 402:551
fluorogenic assay, 401:659
focal adhesion kinase (FAK), 408:7
folding, 404:353
folding intermediate, 401:533, 403:149
folding pathway, 404:477
fold-type I enzyme, 404:477
forkhead/winged helix transcription factor box2 (Foxa2), 405:359
formylglycine-generating enzyme (FGE), 403:305
fortilin, 408:181
Fourier-transform infrared (FTIR), 406:297
fragmentation, 402:503
free radicals, 403:323
Frizzled 5 (Fz5), 402:515
fructo-oligosaccharide, 407:189
fructose, 408:251
fucoganglioside, 407:31
fucosyltransferase (FucT), 402:105
fumarylacetoacetate, 402:251
furin, 401:325, 407:171
Fusarium graminearum, 408:97
futile cycling, 406:457

galactonolactone oxidase, 407:419
α-galactosidase A, 406:285
Galanthus nivalis (snowdrop) agglutinin (GNA), 404:51
ganglioside, 402:471, 407:31, 408:211
gap junction, 408:375
GDNF family receptor α1 (GFRα1), 404:131
gel filtration, 404:257
gelatinase A, 402:503
gelatinase B, 405:547
gelatinolysis, 406:147
gender, 403:109
gene 3 protein (g3p), 403:565
gene delivery, 405:41
gene expression, 401:57, 401:735, 405:191, 406:457
gene family, 408:395
gene regulation, 402:135, 402:359, 403:593, 406:491
gene targetting, 404:235
gene therapy, 406:185
gene transcription, 402:367
gene transfer, 406:167, 406:185
genetic disease, 401:365
genome stability, 408:87
germinal centre B-cell-expressed transcript 1 (GCET1), 405:489
Gli, 403:369
glial cell, 401:447
glial cell-line-derived neurotrophic factor (GDNF), 404:131
gliding motility, 403:71
globin, 403:391
globin domain, 407:15
globo-series, 402:459
glucagon, 403:593, 407:373
glucanase, 405:139
glucoamylase, 403:21
gluconeogenesis, 401:465, 407:373
glucosamine-6-phosphate synthase (Gfa1p), 404:121
glucose, 408:251
glucose-induced insulin secretion, 405:359
glucose oxidase (GOX), 401:227
glucose 6-phosphate, 408:251
glucose-6-phosphatase (G6Pase), 407:373
glucose-regulated protein 78 (GRP78), 402:581
glucose-regulated protein of 94 kDa (GRP94), 405:233
glucose synthesis, 401:465
glucose transporter 4 (GLUT4), 403:243, 403:353
β-glucosidase, 408:241
GLUT1, 402:279
GLUT4, 402:279
glutamate–cysteine ligase, 405:583
glutamate excitotoxicity, 406:407
glutaminase inhibitor, 406:407
glutamine amide hydrolysing (GAH) domain, 404:121
glutamine amidotransferase, 407:1
glutamine metabolism, 401:465
glutamine-rich domain, 405:243
γ-glutamyl leukotrienase, 405:379
glutathione, 405:583
glutathione peroxidase (GPx), 403:283
glutathione peroxidase-type tryparedoxin peroxidase, 405:445
glutathione S-transferase placental form (GSTP), 402:559

© 2008 Biochemical Society

glutathione transferase, 401:635, 402:339, 406:115, 406:247
glycation, 404:269, 406:139
glyceraldehyde-3-phosphate dehydrogenase (GAPDH), 404:197
glycine moiety of glutathione (GSH), 406:247
glycogen phosphorylase, 405:107
glycogen synthase, 405:107
glycolipid, 402:459
glycolysis, 408:123
glycoprotein, 402:311, 403:43
glycoprotein 41 (gp41), 403:565
glycosaminoglycan, 401:79, 401:587, 403:545
glycoside hydrolase, 401:551, 405:139, 407:207
glycosphingolipid (GSL), 401:689
glycosphingolipid-enriched microdomain (GEM), 401:689
glycosyl hydrolase family 5, 408:241
glycosylation, 401:447, 402:515, 403:97, 405:547, 408:161
glycosylphosphatidylinositol (GPI) anchor, 405:287
glycosyltransferase, 403:545
glyoxalase I (GLO1), 407:121
glyoxylate cycle, 406:399
Gly-Phe-diazomethane (Gly-Phe-CHN_2), 401:645
G_{M1a}, 407:31
Golgi, 406:157
G-protein, 401:377, 403:369
G-protein-coupled receptor, 401:485, 402:51, 403:537
gravitropism, 401:613
green fluorescent protein (GFP), 407:343
green fluorescent protein (GFP)-fusion protein, 405:21
growth arrest, 403:573
growth autonomy, 406:427
growth factor, 404:327
growth-regulated oncogene (GRO)/cytokine-induced neutrophil chemoattractant-1 (CINC-1), 401:65
G-site, 403:267
$G_{\alpha i}$ subunit, 403:537
GTPase-activating domain, 401:679
GTPase-activating protein, 402:439, 407:231, 403:353
GTPase-binding domain, 404:487
GTP-binding protein, 402:439
GTP-binding protein $\beta\gamma$ subunits ($G\beta\gamma$), 406:157
GTP hydrolysis, 402:439
guanine nucleotide exchange factor (GEF), 406:223, 406:383

haem, 401:235, 407:89
haem (heme), 405:e3
haem biosynthesis, 402:575
haem-binding protein, 408:429
haem-copper oxidase, 401:111
haem crystallization, 402:197
Haemophilus influenzae, 403:43, 404:217
haem oxygenase, 406:77
haem oxygenase 1 (HO-1), 404:459
haem spectrum, 403:97
haem vinyl group, 408:355
haem-regulated inhibitor, 401:411
haem-regulatory motif (HRM), 408:429
haemagglutinin, 405:41
haemoglobin, 402:143, 403:391
haemoglobin (Hb)-based oxygen carrier, 403:189
haemolymph, 405:287
haemozoin, 402:197
haplogroup, 404:e3
haptocorrin, 403:431
heart, 406:309
heart electrophysiology, 404:227
heat-shock protein, 401:411, 401:437, 404:159, 404:317
heat-shock protein (HSP), 405:233
heat-shock protein 27 (Hsp27), 407:407
heat-shock protein 70 (Hsp70), 404:353
Hedgehog (Hh), 403:369
hemicalcin (HCa), 404:89
hemifluorinated surfactant, 403:183
Hemiscorpius lepturus, 404:89
heparin, 404:131
heparan sulfate, 401:587, 404:131, 404:535
heparin-binding epidermal growth factor (Hb-EGF), 405:559
heparin-binding epidermal growth factor-like growth factor (HB-EGF), 405:251
hepatocarcinogenesis, 402:559
hepatocyte, 404:499, 405:251
hepatocyte nuclear factor 1α (HNF1α), 402:81, 408:317
hepatocyte transplantation, 402:251
HepG2 cell, 401:87
heterodimer, 407:363
heterologous expression, 403:583
hexose-phosphate-isomerizing (ISOM) domain, 404:121
high-density lipoprotein (HDL), 403:359
high-density lipoprotein (HDL) biogenesis, 406:167
high-fat food intake, 401:727
high-performance anion-exchange chromatography with pulsed amperometric detection (HPAEC-PAD), 407:267
high-resolution respirometry, 405:223
hippocampus, 404:97
histidine phosphorylation, 403:149
histone, 402:125, 408:317
histone acetylation, 401:299
histone acetyltransferase, 403:397
histone acetyltransferase (HAT), 402:559
histone deacetylase, 401:659
histone deacetylase (HDAC), 407:79
histone modification, 408:113, 408:267
HIV, 405:165
HIV-1, 403:565, 404:151
HL60 cell, 408:277
homocysteine, 405:583
homology modelling, 404:89
honey-bee (*Apis mellifera*), 402:105
Hop, 404:159
horizontal gene transfer, 401:e5
hormonal regulation, 401:57
horse, 407:267
host range mutant, 405:465
hotspot, 408:363
Hsp22, 401:437
HspB8, 401:437
HT1080, 402:175
$hTAF_{II}68$-TEC, 404:197
human brain, 406:333
human bronchial epithelial cell, 405:131
human embryonic kidney cells (HEK-293 cells), 404:431
human evolution, 404:345
human leucocyte antigen, 401:121
human myotube, 405:107
human neuroglobin (NGB), 407:89
human organic anion transporter (hOAT), 401:515
human papillomavirus (HPV) transcription, 403:501
human pre-elafin, 405:455
human primary myotube, 406:511
human T-cell leukaemia virus type 1 (HTLV-1), 406:317
hyaluronan, 401:79
hyaluronan synthase (HAS), 404:327
hyaluronidase, 401:79, 404:327
hybrid receptor, 403:603
hydrogen/deuterium exchange, 404:63
hydrogen peroxide, 405:51, 405:341, 405:591, 406:105
hydrogen peroxide production, 406:125
hydrolase, 404:337
hydrolysis, 401:721
hydroperoxide metabolism, 402:43
hydrophobic interaction, 401:635, 407:179
hydrophobicity, 408:251
hydroxyeicosatetraenoic acid (HETE), 403:109
N^{ω}-hydroxy-L-arginine (NOHA), 401:235
hydroxylase, 401:227
17β-hydroxysteroid dehydrogenase, 402:419
hypercholesterolaemia, 406:203
hypoxia, 401:217, 408:00, 408:231, 408:e5
hypoxia-inducible factor (HIF), 401:227, 401:341, 408:00, 408:231, 408:e5
hypoxia-inducible factor-1 (HIF-1), 405:1, 406:317
25-hydroxycholesterol, 405:473

immediate early gene-X-1 (IEX-1), 402:367
immunohistochemistry, 402:25
immunolocalization, 408:417
immunophilin, 401:287
immunoprecipitation, 401:429
immunosuppression, 406:479
Imp4, 408:387
importin α_1, 402:359
inflammation, 405:605
influenza virus, 405:41
inhibition, 408:173
inhibitor complex, 405:261
inhibitor of carbonic anhydrase, 406:85
inhibitor of nuclear factor κB ζ (IκB-ζ), 405:605
inhibitor specificity, 408:297
inhibitory loop mutant, 405:455
inland taipan (*Oxyuranus microlepidotus*), 402:93
innate immunity, 405:605, 407:267
inorganic phosphate (P_i) starvation, 405:191
inorganic polyphosphate (polyP), 406:49
inorganic pyrophosphatase (PPase), 408:327
inositol, 407:219
inositol 1,4,5-trisphosphate (IP_3), 402:301, 404:383
inositol 1,4,5-trisphosphate receptor (IP_3R), 404:383, 407:303
inositol phosphate multikinase (IPMK), 403:381
insecticidal toxin, 406:41
insertion mutation, 403:343
in situ hybridization, 408:335
in situ reconstitution, 403:537
Ins(1,3,4,5,6) $P_4$2-kinase (IP5K), 408:335
insulator, 408:267
insulin, 402:241, 403:353, 404:257, 407:373
insulin-like growth factor (IGF), 401:269, 406:57
insulin-like growth factor 1 receptor (IGF1R), 407:79
insulin receptor (IR), 403:603
insulin-responsive aminopeptidase (IRAP), 402:279
insulin secretion, 403:197
insulin signalling, 404:449, 406:511
insulin signal transduction, 403:243
integrin, 401:689, 405:417, 407:153
integrin αIIbβ3, 401:753
inter-domain interaction, 401:317

© 2008 Biochemical Society

interchromatin granule cluster (IGC), 407:407
interfacial activation, 405:319
interferon α (IFNα), 407:141
interferon α/β receptor, 407:141
interferon β (IFNβ), 407:141
interleukin-6, 402:261
interleukin-1 receptor-associated kinase-4 (IRAK-4), 403:451
internalization, 407:141
intestinal biotransformation, 404:207
intestinal epithelium, 402:291, 403:573
intestine, 404:169
intracellular binding, 402:537
intracellular pH, 401:623
intramolecular channel, 404:121
intranuclear distribution, 407:407
intrinsic factor, 403:431
invariant chain (Ii), 406:97
in vitro mutagenesis, 407:61
iodixanol gradients, 402:279
iododifluninsal, 408:131
ion channel, 404:227
ion pump, 404:227
ionizing radiation, 403:463
iron, 403:261, 405:51, 408:97
iron absorption, 403:59
iron-binding protein, 404:217
iron homoeostasis, 405:523, 406:85
iron-only hydrogenase-like protein 1 (IOP1), 401:341
iron-regulatory protein 1 (IRP1), 405:523
iron regulatory protein 2 (IRP2), 408:429
iron-sulfur (Fe–S) clusters, 408:19
iron transport, 403:43, 403:297, 404:217
iron transporter, 408:97
ischaemia/reperfusion, 405:407
isothiocyanate, 406:115

Janus kinase (JAK), 404:e1, 407:141
Jurkat cell, 403:89, 405:115

12.6 kDa FK506 binding protein (FKBP12.6), 404:431
25 kDa synaptosome-associated protein (SNAP-25), 401:353
K201 (JTV519), 404:431
2-keto-3-deoxygluconate aldolase (KDGA), 403:421
ketone body, 401:465
KG1a cell line, 403:335
kidney, 405:147
kinase profiling, 408:297
kinase-specific inhibitor, 401:29
kinase substrate tracking and elucidation screening (KESTREL screening), 405:307
kinetic mechanism, 404:439
kinetic model, 407:207
kinetics, 401:485, 402:331, 402:439, 402:503

labile iron pool, 403:261
β-lactam hydrolysis, 401:197
lactate, 408:123
lactose repressor, 403:463
large dense-core vesicle, 402:25
large T-antigen, 407:313
Lass5, 401:205
Lck, 402:261
lecithin:cholesterol acyltransferase (LCAT), 403:359, 406:167
lectin, 404:51
lentivirus, 403:305
leptin, 403:519
lethal factor, 402:405
leucine, 407:113
leucine biosynthesis, 408:61
leucine-rich repeat kinase 2 (LRRK2), 405:307
leucine zipper, 402:187, 405:341
leukaemia, 403:335, 404:337
leukotriene A_4 hydrolase (LTA_4 hydrolase), 405:379
leukotriene C_4 synthase (LTC_4 synthase), 405:379
levansucrase, 407:189
Lewis X, 402:105
Lewis X (Le^X) isotope, 406:333
Lhca, 403:251
lichenase, 405:139
Liddle's syndrome, 405:147
ligand binding, 402:51, 405:181, 405:277, 407:15
ligand-binding domain (LBD), 405:31
light meromyosin, 401:97
Limulus test, 406:297
β-1,2-linked mannose, 404:365
linker, 407:293
lipase, 401:659, 408:417
lipid accumulation in *Saccharomyces cerevisiae* (baker's yeast), 408:61
lipid headgroup, 401:437
lipid metabolism, 405:319
lipid mobilization, 406:399
lipid peroxidation, 405:95
lipid phosphatase, 406:13, 407:255
lipid raft, 401:541, 403:313, 407:31
lipidomics, 402:197
lipocalin, 403:297, 408:29
lipolysis, 403:473
lipopolysaccharide, 402:271, 402:387, 403:451, 405:123, 406:479
lipopolysaccharide neutralization (LPS neutralization), 406:297
5-lipoxygenase (5-LO), 405:379
5-lipoxygenase-activating protein (FLAP), 405:379
5-lipoxygenase pathway, 403:157
liquid chromatography-tandem MS (LC-MS/MS), 402:483
lithium, 408:69
liver, 402:591, 403:89, 404:169
liver X receptor (LXR), 405:31
LKB1, 403:139
long-interspersed nuclear element (LINE), 406:491
longevity-assurance gene 1 (LAG1), 401:205
low-density lipoprotein receptor (LDL-R), 406:203
low-density lipoprotein receptor-related protein (LRP), 404:191
low-density lipoprotein receptor-related protein-1 (LRP1), 402:17
Loxosceles astacin-like protease (LALP), 406:355
LRO1 (phospholipid:diacylglycerol acyltransferase gene), 408:61
luciferase, 402:135
luminal pH (pH_L), 402:301
Lutheran, 402:311
LY294002, 401:175, 404:15
lymphocyte function-associated antigen-1 (LFA-1), 402:471
lymphoma, 405:489
lysine, 403:381, 404:269
lysine acetylation, 407:383
lysocardiolipin, 401:103
lysophosphatidic acid, 406:427
lysophosphatidylcholine, 405:319
lysosomal localization, 402:449
lysosomal protein, 408:1
lysosomal storage disorder, 403:305
lysosome, 403:89, 403:261
lysosome-associated membrane protein 1 (LAMP1), 408:347

α_2-macroglobulin (α_2M), 407:23
macromolecular complex, 404:257
macrophage, 402:387
MafK, 402:559
magnesium–chelatase, 406:469
magnesium ions (Mg^{2+}), 405:199
major facilitator superfamily (MFS), 401:515
major histocompatibility complex class II (MHCII), 406:97
malaria, 402:197, 403:167
male germ cell, 401:651
malignant hyperthermia, 401:333, 402:349
mammalian protein–protein interaction trap (MAPPIT), 401:257
mammalian target of rapamycin (mTOR), 403:13, 403:217, 405:513, 406:1
mammary tumour cell, 406:31
manganese, 407:397
mannosaminuronic acid biosynthesis, 405:123
mannose-binding, 404:51
mannose 6-phosphate, 402:449
mannosyltransferase, 404:365
MAP4K3, 403:e1, 403:13
MAPK kinase (MKK), 401:559
marine bacterium, 404:105
mass spectrometry, 403:397, 403:463, 404:247, 405:307, 407:41
mast cell, 403:49
mastermind-like protein-1 (MAML1), 404:289
mathematical modelling, 402:537
matrilysin-2, 403:31
matrix metalloproteinase (MMP), 401:121, 401:689, 403:553, 405:547, 405:559
matrix metalloproteinase 2 (MMP-2), 406:147
matrix metalloproteinase 26 (MMP-26), 403:31
matrix metalloproteinase inhibitor, 406:147
matrix-assisted laser-desorption ionization–time-of-flight (MALDI–TOF), 401:429
maurocalcine, 406:309
Max, 403:397
mechanism, 401:721
medium-chain dehydrogenases/reductases, 404:421
MEGF9, 401:447
melanosome biogenesis, 406:365
melanotransferrin, 406:85
membrane binding, 406:223, 407:179
membrane-bound dipeptidase, 405:379
membrane delivery, 403:183
membrane fusion, 403:565
membrane microdomain, 403:313
membrane potential, 403:197
membrane protein, 401:607, 401:623, 403:183, 408:51
membrane protein structure, 408:375
membrane topology, 407:363
membrane trafficking, 401:185
membrane transport, 401:613
membrane-type 3 MMP (MT3-MMP), 403:553
Menkes disease, 402:e1, 402:241
Menkes-disease protein (MNK; ATP7A), 401:569
mesangial cell, 406:131
metabolic control analysis (MCA), 404:227
metabolic engineering, 404:517
metabolic syndrome, 403:139
metabolism, 403:197, 408:123
metabolite, 401:365

© 2008 Biochemical Society

metal-binding site, 401:143
metal co-ordination, 404:393
metal complex, 407:435
metal trafficking, 402:e1
metal transport, 402:e1
metallo-β-lactamase, 401:197
metallocarboxypeptidase, 401:399
metallohydrolase, 403:527
metalloprotease, 406:355, 407:435
metalloproteinase, 402:405, 405:299
metallothionein, 402:551, 407:49
metastasis, 407:199
metatherian lactation, 408:29
methionine aminopeptidase (MetAP), 407:41
methionine sulfoxide reductase (Msr), 407:321
methylglyoxal, 404:269, 407:121, 408:251
5′-methylthioadenosine, 401:87
methyltransferase, 404:439, 406:469
M32 family of peptidases, 401:399
Mg^{2+} transporter, 401:505
MHC Class I, 401:121
microbial enzyme, 406:115
microfibril, 402:63
midpoint redox potential, 408:139
milrinone, 403:519
mitochondrial biogenesis, 404:499
mitochondrial DNA (mtDNA), 404:345, 404:e3
mitochondrial DNA (mtDNA) depletion, 402:377
mitochondrial intermembrane space, 405:173
mitochondrial outer membrane permeabilization (MOMP), 405:115
mitochondrial oxidative phosphorylation, 404:499
mitochondrial peptidase, 407:41
mitochondrial permeability transition pore, 405:407
mitochondrial respiration, 405:223
mitochondrial respiratory chain, 405:1
mitochondrial superoxide dismutase, 403:323
mitochondrion, 401:103, 401:459, 402:175, 402:271, 405:e3, 407:129
mitogen-activated protein kinase (MAPK), 401:29, 401:559, 402:271, 402:491, 404:141, 404:299, 405:e5, 405:591, 405:617
mitogen-activated protein kinase pathway, 402:405
mitogen-activated protein kinase (MAPK) phosphatase-1 (MKP-1), 406:131
mitosis, 403:235
mitotic protein mono-clonal 2 (MPM-2), 403:235
mobile phone, 405:e5
mobile phone irradiation, 405:559
modular kinetics, 401:459
modular kinetic analysis, 404:345
molecular chaperone, 404:159, 404:353
molecular dynamics, 405:277
molecular engineering, 406:209
molecular evolution, 404:51
molecular homology modelling, 405:473
molecular modelling, 402:503
molten globule, 403:149
molten globule state, 407:179
molybdoenzyme, 408:19
monoclonal antibody, 401:269
monocyte, 403:157
monocytic leukaemia zinc-finger protein (MOZ), 402:559
monoglyceride, 408:417
monolysocardiolipin acyltransferase, 401:103
monosialyl-Gb5 (MSGb5), 401:689
Monte Carlo simulation, 403:463
Moorella thermoacetica, 408:327
morphine, 406:215
mosquito (*Anopheles dirus*), 402:339
motor, 403:71
mouse kidney, 403:109
M-phase phosphorylation, 401:521
mRNA, 403:217
mRNA hairpin, 406:445
mRNA processing, 401:651
mRNA translation, 403:217, 406:445
MscL, 403:183
mtDNA selection, 404:e3
MT1-MMP (membrane-type 1 matrix metallo-proteinase), 407:171
mTOR complex-2 (mTORC2), 405:513
mucin 4 (MUC4), 402:81
multi-angle laser light scattering (MALLS), 404:105
multidrug resistance, 401:597
multidrug resistance-associated protein 9 (MRP9), 406:31
muramyl dipeptide (MDP), 404:179
murine lung epithelium, 403:409
mutagenesis, 401:421, 405:277
mutation, 405:181
Myc, 403:397
mycobacterium, 408:417
Mycobacterium tuberculosis, 403:207
Mycoplasma mobile, 403:71
mycotoxin, 404:317
myeloblastin, 405:455
myeloid differentiation factor 88 (MyD88), 403:451, 401:257
myeloperoxidase, 401:587, 402:229, 404:269
myoglobin, 403:391
myosin-binding protein-C, 401:97
myosin rod, 401:97
myotonia, 403:79
myotonic dystrophy, 401:317
myotonic dystrophy kinase-related cell division cycle 42-binding kinase (MRCK), 404:23
myristoylated alanine-rich C-kinase substrate (MARCKS), 408:51

NAD, 405:61
NAD kinase (NADK), 402:205
NADH dehydrogenase, 401:459
NADH oxidase, 405:559
NAD(P)(H), 402:205
NADPH, 403:197
NADPH cytochrome b_5 oxidoreductase (Ncb5or), 404:467
NAPDH oxidase, 403:451, 405:251, 406:77, 105
NADPH oxidase 3 (Nox3), 403:97
NADH:ubiquinone oxidoreductase (Complex I), 406:125
Na^+/H^+ exchanger (NHE), 401:623, 407:101
$Na^+–K^+–2Cl^-$ co-transporter 2 (NKCC2), 405:85
natural-resistance-associated macrophage protein 2 (Nramp2), 403:59
n-dodecyl β-D-maltopyranoside (DDM), 401:569
negative charge, 402:429
nervous system, 401:447
N-ethylmaleimide (NEM), 403:189
neural cell-adhesion molecule (NCAM), 406:333
neural retina, 408:51
neuraminidase, 408:395
neuritogenesis, 407:31
neuroblast, 401:175
neuroblastoma, 403:149
neurodegeneration, 404:309
neurogenin, 407:277
neurogranin, 404:31
neurolysin, 404:279
neuron, 402:25
neuronal nitric oxide synthase, 401:391
neuronal precursor cell expressed developmentally down-regulated gene 4-2 (Nedd4-2), 405:147
neuroserpin, 402:25
neurotransmitter, 401:185
neutral lipid, 402:197
neutrophil elastase, 405:455
neutrophil gelatinase-associated lipocalin (NGAL), 403:297
neutrophil, 403:451
NF-κB, *see* nuclear factor κB
NgalR-3, 403:297
N-glycan, 402:105
NhaA, 401:623
Nicotiana, 403:e13
Nicotiana sylvestris, 403:493
Nicotiana tabacum, 403:493
Niemann–Pick C1-like 1 (NPC1L1), 406:273, 408:1, 408:e1
Niemann–Pick type C disease (NPC disease), 408:1, 408:e1
Niemann–Pick type C disease proteins 1 and 2 (NPC1 and NPC2)
nitric oxide, 401:1, 405:e3, 405:223, 406:19, 407:15
nitric oxide reductase, 401:111
nitric oxide synthase (NOS), 401:235
nitrite reductase, 406:19
4-[8-(3-nitrophenyl)-[1,7]naphthyridin-6-yl]benzoic acid (NVP), 408:193
N-nitrosamine, 402:483
nitrosative stress, 407:121
nitrotyrosine, 401:497
nitrous oxide, 401:111
Nkx6.1, 403:593
NMR, 403:79, 404:63
NMR spectroscopy, 401:465, 408:429
N-myristoylation, 408:173
non-alcoholic steatohepatitis (NASH), 408:161
non-hypertensive tetraPEGylated canine haemoglobin, 405:503
non-metastatic protein 23 (NM23-H1), 407:199
non-nucleoside reverse transcriptase inhibitor, 404:151
non-viral vector, 406:185
noradrenaline (norepinephrine) transporter (NET), 401:185
noradrenaline uptake, 401:185
Notch, 404:289
Nox organizer 1 (NOXO1), 403:97
NOX4, 406:105
NOX4 inhibitor, 406:105
NS2B–NS3, 401:743
N-terminal labelling, 407:41
NTPase, 401:679
nuclear export, 404:235
nuclear factor κB, 401:87, 405:605, 406:215, 408:105, 405:251
nuclear factor erythroid 2-related factor 2 (Nrf2), 404:459
nuclear factor-erythroid 2-p45 subunit-related factor (Nrf), 408:161
nuclear factor-erythroid 2 p45 subunit-related factor 2 (Nrf2), 402:559
nuclear factor-Y (NF-Y), 402:591
nuclear localization, 402:359, 403:397, 408:335
nuclear localization signal (NLS), 406:185
nuclear magnetic resonance (NMR), 406:67
nuclear-magnetic-resonance spectrum (NMR spectrum), 404:365
nuclear prelamin A recognition factor (Narf), 401:341
nuclear receptor, 401:735, 405:31
nuclear translocation, 401:735

© 2008 Biochemical Society

nucleic acid, 404:45
nucleocytoplasmic DNA transport, 406:185
nucleocytoplasmic shuttling, 404:235
nucleolar stress, 404:373
nucleolus, 402:71
nucleoside diphosphate (NDP) kinase (nm23), 403:149
nucleoside excision, 405:165
nucleoside triphosphatase (NTPase), 403:71
nucleosomal array, 405:541
nucleotide receptor, 405:277
nucleotide synthesis, 401:39
nucleotide-binding domain (NBD), 401:581
nucleotide-binding oligomerization domain 2 (NOD2), 404:179
nucleus, 402:71, 407:355
nutrient transporter, 406:1

O antigen, 405:123
O^2 affinity, 405:503
obesity, 402:387, 407:129
Ochrobactrum anthropi, 403:267
Oct-2, 402:387
octa-arginine, 403:335
Octamer, 402:387
octamer-binding transcription factor 1 (Oct-1), 401:57
oedema factor, 402:405
oesophageal carcinoma, 403:297
oesophagus, 402:81
oestrogen, 402:241, 407:355
oestrogen receptor α (ERα), 406:343
oligoamine, 405:541
oligomerization, 401:39, 403:313, 406:479
omwaprin, 402:93
on-line solid-phase extraction, 402:483
oncogenesis, 406:1
opossum, 408:29
oral squamous cell carcinoma (OSCC), 407:153
Orc4p, 402:397
Orc5-Ap, 402:397
organelle specificity, 401:701
organic anion transporter, 401:515
organic-solute transporter (Ost), 407:363
origin recognition complex (ORC), 402:397
ornithine decarboxylase, 403:573
OSBP-related protein (ORP), 405:473
oscillation, 401:485
Ost$\alpha^{-/-}$ mouse, 407:363
Osterix, 405:69
ovarian cancer cell, 406:427
oxalate decarboxylase, 407:397
oxalate oxidase, 407:397
β-oxidation, 406:399
oxidative phosphorylation, 404:345, 405:1
oxidative stress, 402:205, 402:219, 403:157, 403:261, 404:467, 405:341, 405:583, 407:89, 408:161
5-oxo-eicosatetraenoic acid (5-oxo-ETE), 403:157
2-oxoglutarate (2OG), 401:227
oxygen consumption, 405:223
oxygen consumption assay, 401:227
oxygen-degradation domain (ODD), 408:00, 408:231
oxygen-dependent degradation domain (ODD), 408:e5
oxysterol-binding protein (OSBP), 405:473
oxytocin, 404:413
ozone, 405:131

p130Cas, 407:243
P2Y receptor, 405:277
p21, 402:359
p21-activated kinase (Pak), 404:487
$p22^{phox}$, 403:97
$p27^{Kip1}$, 401:247
p27, 404:509
p38, 401:559, 402:491
p53, 401:155, 403:501, 404:509, 406:437, 407:451, 407:79
p73, 405:617
p300, 403:397, 404:289, 407:451
1-palmitoyl-2-(5-oxovaleroyl)-*sn*-glycero-3-phosphocholine (POVPC), 405:95
p-aminohippuric acid, 401:515
palmitoylation, 402:515
pancreas, 404:169
pancreatic β-cell, 405:359
papain, 401:421
paracrine mechanism, 406:175
parasitic nematode, 404:439
Parkinson's disease (PD), 405:307
PC4, 406:437
PC12 cells, 404:131
PD98059, 401:175
Pdx, 407:1
pectin degradation, 407:207
PEGylation, 402:143, 404:337, 405:503
penetratin, 407:285
pentacyclic triterpenoids, 403:243
pentose phosphate pathway, 401:279
peptidase, 407:41
peptide array, 404:71
peptide cleavage assay, 401:743
peptide disruptor, 408:363
peptide-spot mapping assay, 401:711
peptidyl-prolyl *cis–trans* isomerase (PPI), 401:287
PER/ARNT/SIM domain (PAS domain), 402:525
peripheral membrane protein, 408:211
periplasmic iron-binding protein, 403:43
peroxidase, 403:391, 408:355
peroxiredoxin, 401:287, 405:445
peroxisome, 401:365
peroxisome-proliferator-activated receptor (PPAR), 406:175
peroxisome-proliferator-activated receptor α (PPARα), 405:131
peroxisome-proliferator-activated receptor γ co-activator (PGC-1), 403:511
peroxynitrite, 407:89
P-glycoprotein, 406:257
pH, 407:343
pH optima, 405:61
pH-dependence, 402:503
pH-rate profile, 401:197
pharmacokinetics, 402:251
pharmacological chaperone, 406:e1, 406:257
phorbol ester, 403:1, 406:223, 408:7
phosphatase, 405:439
phosphatidic acid, 404:31
phosphatidylcholine, 403:409
phosphatidylglycerol, 406:469
phosphatidylinositol 4,5-bisphosphate, 404:31
phosphatidylinositol 3-kinase (PI3K), 404:15, 404:449
phosphocholine biosynthesis, 404:439
phosphodiesterase, 402:153
phosphodiesterase 3B (PDE3B), 403:519, 404:257
phosphodiesterase-4 crystal structure, 408:193
phosphodiesterase-4 inhibitor, 408:193
phosphodiesterase (PDE), 407:69, 407:199
phosphodiesterase 4 (PDE4), 404:71
phosphoenolpyruvate carboxykinase (PEPCK), 402:567, 403:511
phosphoenolpyruvate carboxylase kinase (PPCK), 405:191
phosphofructokinase, 408:123
phosphoinositide, 405:439
phosphoinositide 3-kinase (PI3K), 401:679, 402:471, 406:1, 406:57, 406:317, 406:511, 407:255, 408:221
phosphoinositide 3-kinase enhancer (PIKE), 401:679
phospholipase, 405:319
phospholipase C (PLC), 405:269, 406:157, 406:501
phospholipase Cγ2 (PLCγ2), 401:753
phospholipase D (PLD), 404:31
phospholipid, 402:117, 407:219
phospholipid aldehyde, 405:95
phospholipid hydroperoxide glutathione peroxidase (PHGPx), 408:277
phospholipid membrane, 405:351
phospholipid resynthesis, 401:103
phospholipid scramblase-3, 401:103
phospholipid synthesis, 401:103
phosphorolysis, 405:165
phosphorylase, 403:441
phosphorylation, 401:29, 401:129, 401:391, 403:235, 404:257, 405:533, 405:569, 405:617, 405:85, 406:501, 407:303, 407:407, 408:375
photo-cross-linking, 405:473
photolabelling, 402:51
photoswitching, 402:35
photosynthesis, 401:13, 403:251
photosystem I, 403:251
photosystem II, 406:415
α1-PI (α1-proteinase inhibitor), 407:171
PI3K regulatory subunit (p85), 408:221
PI3K regulatory subunit (p110), 408:221
PIK3CA, 404:449
PIK3CB, 404:449
pituitary tumour GH3 cell, 401:391
pin-formed (PIN), 401:613
pK_a modulation, 403:441
plasma membrane, 401:437, 408:211
plasmepsin, 407:343
plasmid DNA, 405:41
plasminogen-activator inhibitor type 1 (PAI-1), 408:203
plasminogen-activator inhibitor type 2 (PAI-2), 408:203
Plasmodium falciparum, 402:197, 403:167, 407:343, 408:173
plastid localization, 403:493
plastocyanin, 403:251
platelet, 401:167, 403:275
platelet-derived growth factor (PDGF), 404:191, 404:327
platelet-derived growth factor-BB (PDGF-BB), 404:45
platelet spreading, 401:753
Poaceae (Gramineae, grasses), 401:13
polyadenylation, 401:651
polyanion, 406:49, 407:243
polyamine analogue, 405:541
polyamine synthesis, 405:261
polychlorinated biphenyl (PCB), 406:343
poly(ethylene glycol) (PEG), 404:337, 405:503
polyol transport, 406:325
polyphosphate, 407:161
poly-proline helix, 403:79
polyprotein precursor processing, 401:743
polysialic acid, 405:465
polysome nascent chain complex, 406:415
polyubiquitination, 407:277, 402:367
polyunsaturated fatty acid, 402:591, 406:77
pore-forming toxin, 403:167
post-translational modification, 402:449, 402:515, 407:121

© 2008 Biochemical Society

post-translational regulation, 407:383
poxvirus, 407:61
pre-receptor control, 402:419
precursor ion scanning MS, 402:491
pregnancy, 402:241
pregnane X receptor (PXR), 407:373
presenilin, 401:121
p90 ribosomal S6 kinase (RSK), 401:29, 402:491, 407:231
primary hyperoxaluria, 408:39
prion, 402:17
prion protein (PrP), 401:475, 401:533, 404:393, 406:333
procollagen, 405:299
product identification, 404:439
programmed cell death (PCD), 403:323
prohibitin, 401:155
pro-inflammatory cytokines, 404:179
prolactin, 401:49, 401:57
proliferation, 401:49, 408:79
proline/glutamine-rich domain, 405:243
proline hydroxylase domain, 408:231, 408:e5
proline hydroxylase domain-containing protein, 401:341
proline hydroylase domain (PHD), 408:00
proline-rich repeat protein-5 (PRR-5), 405:513
prolyl hydroxylase domain containing 3 (PHD3), 401:217
promoter, 406:437, 406:491
promoter activity, 408:277
proprotein convertase subtilisin/kexin 9 (PCSK9), 406:203
prostaglandin-endoperoxidase synthase 2 (PTGS2), 406:175
prostate, 401:49
protease nexin-1 (PN-1), 404:191
protease, 403:49, 405:429, 405:489, 407:41
protease-activated receptor (PAR), 406:501
protease-activated receptor 1 (PAR-1), 401:167
protease-activated receptor 2 (PAR-2), 408:221
proteasomal degradation, 404:509
proteasome, 404:353, 404:487, 405:341, 408:259
proteasome assembly, 402:367
proteasome-dependent degradation, 403:119
Pro-Trp-Trp-Pro domain (PWWP domain), 405:369
14-3-3 protein, 407:231
protein aggregation, 401:129
protein arginine N-methyltransferase (PRMT), 408:113
protein crystallography, 407:397
protein degradation, 401:217
protein disulfide isomerase, 403:283, 404:403
protein engineering, 404:517
protein evolution, 403:e13, 403:493
protein folding, 402:429, 406:e1
protein inhibitor of activated STAT Y (PIASy), 405:481
protein interaction, 401:429, 403:545, 406:265
protein kinase, 405:21, 405:307, 405:513, 408:297
protein kinase B (Akt), 404:449, 406:389
protein kinase C (PKC), 403:1, 404:31, 404:299, 405:331 405:533, 406:501, 408:51
protein kinase Cα (PKCα), 406:389
protein kinase Cζ (PKCζ), 405:77
protein kinase D (PKD), 406:157
protein kinase inhibitor, 405:331
protein mass spectroscopy (protein MS), 403:189
protein maturation, 402:581
protein misfolding, 406:e1, 406:285
protein observed with Rictor-1 (Proctor), 405:513
protein overexpression, 408:149
protein oxidation, 401:587, 403:463, 407:321
protein phosphatase, 406:13, 139, 407:255
protein phosphatase 1 (PP1), 402:187, 407:303, 408:7
protein phosphatase 2A (PP2A), 403:235
protein phosphatase 2C (PP2C), 405:591
protein phosphatase 1 subunit G_L (*PPP1R3B* gene product), 405:107, 405:107
protein phosphatase 1 subunit PTG (*PPP1R3C* gene product), 405:107
protein phosphorylation, 404:247, 405:21
protein poly(ethylene glycol)ation (protein PEGylation), 403:189
protein purification, 401:581
protein repair, 406:139
protein secretion, 405:181
protein serine/threonine phosphatase, 402:187
protein serine/threonine phosphatase 5 (PP5), 405:591
protein solubility, 402:429
protein stability, 404:487, 405:439, 407:277
protein structure, 408:29
protein synthesis, 401:411
protein thiolation, 403:189
protein trafficking, 405:147, 407:343
protein tyrosine phosphatase (PTP), 402:1
protein tyrosine phosphatase 1B (PTP1B), 402:291
protein–protein interaction, 401:711, 402:567, 404:197, 405:243, 406:19, 407:199, 407:313, 408:347, 363
proteinase, 407:153
proteinase K, 401:475
proteinase-activated receptor (PAR), 401:65
proteoglycan, 403:49, 403:545, 403:553, 404:535
proteolysis, 401:475, 404:e1, 407:153, 408:429
proteolytic processing, 405:299
proteolytic resistance, 404:337
proteome analysis, 406:415
proteomics, 402:449, 408:51
prothrombinase, 407:427
proton movement, 401:111
proton relay, 404:421
protonmotive force, 407:161
protoporphyrin, 402:575
protoporphyrinogen IX oxidase, 402:575
PRPP synthetase, 401:39
prune, 407:199
PsaJ, 403:251
Pseudomonas aeruginosa, 403:409
Pseudoalteromonas haloplanktis, 407:293
P-site inhibition, 401:309
psychrophile, 407:293
PTEN (phosphatase and tensin homologue deleted on chromosome 10), 405:439
P-type ATPase, 401:143, 401:569
pyrene actin assay, 401:711
pyridine nucleotides, 403:157
pyridoxal 5′-phosphate, 404:477, 408:39
pyridoxal 5′-phosphate (PLP), 407:1
pyridoxamine 5′-phosphate, 408:39
pyruvate carboxylase, 405:359
pyruvate dehydrogenase kinase, 403:511

quasi-steady state approximation, 402:537
quinoline, 402:197

Rab, 403:353
Rab27a, 402:229
Rac GTPase-activating protein (RacGAP), 403:1
radiolytic attack, 403:463
raft, 402:471, 405:77
Ralstonia eutropha flavohaemoglobin (FHP), 407:15
rapamycin-insensitive companion of mTOR (Rictor), 405:513
reaction mechanism, 401:279
reactive oxygen species (ROS), 401:1, 402:271, 403:323, 405:1, 405:173, 405:251, 405:e5, 405:523, 405:559, 406:77, 406:105 406:125, 406:215, 407:255
receptor-associated protein (RAP), 402:17
receptor-binding domain, 407:23
receptor-interacting protein 2 (RIP2), 404:179
receptor-interacting protein 140 (RIP140), 405:31
receptor site-3, 406:41
receptor trafficking, 402:537
receptor tyrosine phosphorylation, 403:243
recombinant protein expression, 408:241
recombinant wild-type prion protein ($rPrP^C$), 403:343
recruitment, 408:287
red algae, 404:105, 406:325
red blood cell, 402:311
redox-active metals, 404:269
redox signalling, 405:e3
redox state, 402:551, 405:583
reductase, 404:467
reductive alkylation, 402:143
reggie, 403:313
regulated protein degradation, 402:367
regulated secretion, 405:597
regulation, 408:123
regulation mechanism, 401:39
renal calcium reabsorption, 406:365
renal cancer, 402:459
replication complex, 402:321
replication protein A, 407:313
reporter gene assay, 408:69
repression, 403:177
rescue, 406:257
resistance, 404:151
resistin, 402:387
resonance Raman spectroscopy, 401:235
respiration, 401:459
resveratrol, 404:1, 406:511
retaining mechanism, 403:441
retinoblastoma protein, 401:155, 407:451, 408:79
retinoid X receptor, 407:461
retromer, 408:287
retrotransposon, 406:491
reverse transcriptase, 404:151, 405:165
reversibly switchable fluorescent protein, 402:35
revertant phenotype, 402:377
rhizavidin, 405:397
Rhizobium etli, 405:397
Rhizopus oryzae, 403:21
Rhodobacter capsulatus, 406:469
Rho-GTPase, 404:487
Rho kinase (ROCK), 404:23
ribonuclease, 403:207
ribose 5-phosphate, 406:139
ribose 5-phosphate isomerase (Rpi), 401:279
ribosomal RNA processing, 404:373
ribosomal S6 kinase, 401:391
ribosome, 403:217
ribosome biogenesis, 404:373
riboswitch, 403:129
ribulosamine 5-phosphate, 406:139
ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco), 404:517
Ric8a, 406:383
rice (*Oryza sativa*), 405:243, 408:241
RNA-binding domain (RBD), 401:651
RNA interference, 404:115
RNA ligand, 403:129
RNA methyltransferase, 408:113
RNA polymerase, 406:265
RNA processing, 403:207
RNase E/G, 403:207

© 2008 Biochemical Society

root hair formation, 405:191
rotary shadowing, 404:535, 404:e7
rRNA, 408:387
Runx2, 405:69
Runx3, 405:69
Rv0183, 408:417
ryanodine receptor, 401:333, 404:89, 404:431, 406:309
ryanodine receptor type 1, 402:349

Saccharomyces cerevisiae, 403:381, 408:97
salt stress, 405:139
sarcoendoplasmic calcium ATPase (SERCA), 401:49
sarcoplasmic reticulum, 402:349
sarcoplasmic/endoplasmic reticulum Ca^{2+}-ATPase (SERCA), 408:407
scaffold attachment factor (SAF-box), 407:355
scavenger receptor, 402:117
Schizosaccharomyces pombe, 401:459
scintillation proximity assay (SPA), 408:173
scorpion toxin, 404:89
sea anemone, 406:41
sea anemone toxin, 406:67
sea urchin egg, 402:301
second mitochondrial activator of caspases (Smac), 405:e1, 405:11
secondary structure, 401:533
secretagogin, 401:353
α- and γ-secretase, 401:121
secretory granule, 403:483
secretory phospholipase A_2IB (sPLA$_2$IB), 403:409
seed storage proteins, 404:247
selectin, 406:333
selenate reductase, 408:19
selenocysteine, 404:115
selenocysteine synthesis, 404:115
selenophosphate synthetase, 404:115
selenoprotein, 404:115, 407:321
selenoprotein synthesis, 404:115
semicarbazide-sensitive amine oxidase, 404:269
sensor, 401:353
serglycin, 403:49
serpin, 401:325, 402:25
serine/arginine-rich protein (SR protein), 405:21
serine hydroxymethyltransferase, 404:477
serine palmitoyltransferase (SPT), 405:157
serine protease, 404:45, 404:81
serine protease inhibitor, 401:325, 404:191, 405:429, 405:489, 408:203
serine/threonine phosphatase, 401:711
serpin (*see* serine protease inhibitor)
serum amyloid A, 402:117
serum- and glucocorticoid-induced protein kinase (SGK), 407:231
Sf9 [*Spodoptera frugiperda* (fall armyworm) 9] cell, 401:569
SH-SY5Y cell, 406:215
short heterodimer partner (SHP), 402:567
short interfering RNA (siRNA), 405:269
short-chain dehydrogenase/reductase, 402:419
Siah2, 401:217
sialic acid, 406:333
sialidase, 408:395
sialidase NEU3, 408:211
sialyltransferase, 402:459
signal anchor sequence, 408:161
signal peptidase, 407:41
signal peptide, 401:607
signal transducer and activator of transcription (STAT), 407:141
signal transducer and activator of transcription 3 (STAT3), 402:261
signal transduction, 401:257, 403:217, 403:537, 404:327, 405:617, 406:365
signalling, 401:753, 402:271, 406:13, 407:303
silent information regulator 2 (Sir2), 407:451
simian virus 40 DNA replication (SV40 DNA replication), 407:313
single channel recording, 401:317
single-chain variable fragment (scFv), 406:237
SIR2 (silent information regulator 2), 404:1
Sirt1, 408:105
sirtuin, 406:511
sirtuin 1 (SIRT1), 407:451
sirtuin (SIRT1–7), 404:1
β-site APP cleaving enzyme 1 (BACE1), 407:383
site-directed mutagenesis, 401:551, 404:121, 404:279, 405:299, 407:189, 408:149
site 3 toxin, 406:67
sitosterol, 406:273
six-helix bundle, 403:565
skeletal muscle, 402:349, 403:79
skeletal ryanodine receptor, 401:317
skin, 401:447
skin fibroblast, 402:377
slow tight binding, 403:583
Smad4, 404:235
small-angle X-ray scattering (SAXS), 407:293, 406:297
small fish model, 402:483
small GTPase, 402:229
small-hairpin RNA, 406:343
small heat-shock protein, 401:129
small interfering RNA (siRNA), 401:65, 402:261
small intestine, 401:465
small nucleolar ribo-nucleoprotein (snoRNP), 408:387
small ubiquitin-like modifier (SUMO), 405:481
small ubiquitin-related modifier (SUMO), 405:369
smooth-muscle cell, 405:417
Smoothened (Smo), 403:369
snake venom, 402:93
S-nitrosoglutathione (GSNO), 403:283
SNF2 (transcription factor snf2 gene), 408:61
SOD1 deficiency, 402:219
sodium/calcium exchanger, 406:365
sodium channel inactivation, 406:67
Solanum tuberosum (potato), 401:13, 403:381
soluble guanylate cyclase, 405:223
solute carrier family 11 member 2 (SLC11A2), 401:505, 403:59
solution structure, 403:21, 406:67
Sonic hedgehog (Shh), 403:369
sorting, 408:287
spectroscopy, 404:393
sperm, 406:31
sperm adhesion molecule 1 (SPAM1), 401:79
spermatogenesis, 401:651
spermine, 405:541
S-phase kinase-associated protein 1 (Skp1)/cullin/F-box (SCF) ubiquitin ligase, 405:569
sphingolipid, 401:205, 405:157
sphingomyelin synthase (SMS), 401:541
spider, 406:355
spin state change, 407:179
split-ubiquitin, 406:265
spontaneous Ca^{2+} release, 404:431
26S proteasome, 405:495
Src, 407:243
Src family kinase, 402:261, 403:275, 404:299, 406:501, 407:31
Src homology 3 domain-containing, 401:521
Src kinase, 401:247
stability, 402:331
starch, 401:13
starch-binding domain (SBD), 403:21
STAT5 (signal transducer and activator of transcription 5), 404:81, 404:e1
statin, 401:175, 405:597
Ste 20
stem cell, 404:169
steroid metabolism, 402:419
sterol uptake, 406:273
sterol-regulatory-element binding-protein (SREBP), 402:591
stimulating protein 1/3 (Sp1/Sp3), 407:101
stimulatory protein 1 (Sp1), 402:591
stomach, 404:207
stopped-flow fluorescence, 402:575
store-operated Ca^{2+} channel (SOC), 405:269
streptolysin O, 403:167
stress-activated protein kinase (SAPK), 405:591
stress granule, 408:335
stress kinase, 401:559
stress response, 401:559
stress response gene, 402:163
stromal cell, 406:175
stromal interaction molecule type 1 (STIM1), 405:269
structural integrity, 402:339
structural modelling, 408:149
structure comparison, 403:431
structure–function analysis, 401:623
subcellular fractionation, 402:449
substrate and inhibitor specificity, 404:279
substrate identification, 402:1
substrate recognition, 401:597
substrate specificity, 403:421, 405:429, 408:363
substrate-trapping, 402:1
subunit dissociation, 402:143
subunit interface, 401:635
succinate, 406:125
sugar–nucleotide metabolism, 405:123
sugar transport, 406:325
sulfatase, 403:305
sulfatase-modifying factor 1 (SUMF1), 403:305
sulfated polysaccharide, 404:105
sulfation, 401:497, 403:553
sulfhydryl oxidase, 404:403
Sulfolobus, 403:421
Sulfolobus solfataricus, 408:87
sulfotransferase, 401:497, 404:207
SULT1A3, 401:497
sumoylation, 404:309, 405:369
superoxide, 406:105
superoxide dismutase, 402:219, 405:51
suppressor of cytokine signalling box (SOCS-box), 401:257
suprachiasmatic nucleus, 402:525
supravalvular aortic stenosis (SVAS), 402:63
surfactant, 403:409
surfactant protein A1 (SP-A1), 406:479
SWI/SNF, 402:125
synaptic plasticity, 406:365
synaptic signalling complex, 401:429
synaptobrevin 2, 404:525
synaptophysin I, 404:525
synaptotagmin-like protein (Slp), 402:229
Synechocystis PCC6803, 405:139
synthetic peptide, 401:317
systems biology, 402:537

tail-anchor protein, 401:701
tankyrase, 402:279

© 2008 Biochemical Society

taste receptor cell, 403:537
TATA-box-binding protein 1 (TBP1), 406:265
Tax, 406:317
Tax1-binding protein 1 (Tax1BP1), 401:429
Tbc1d1, 403:353
T-cell factor 4 (Tcf4), 408:317
T4 DNA polymerase, 402:321
telomere, 408:387
telomere binding, 403:289
telomere structure, 403:289
testis, 406:31
tetrabromobisphenol A, 408:407
tetramer, 408:123
tetramerization domain of human p53, 406:237
tetratricopeptide repeat domain, 404:159
tetravalent mini-antibody, 406:237
thapsigargin, 408:181
thaumatin-like protein (TLP), 403:583
thaumatin-like xylanase inhibitor (TLXI), 403:583
thermal-dependence, 402:331
thermodynamics, 406:209, 407:331
thermophilic enzyme, 403:421
thiamine phosphate diphosphorylase, 408:149
thick filament, 401:97
thimet oligopeptidase, 404:279
thioether bond, 408:355
thiol ester, 407:23
thiol metabolism, 405:445
thionein, 402:551
thionin, 402:551
thioredoxin, 402:43
thioredoxin peroxidase, 405:77
thioredoxin reductase (TxrR-1), 405:173
thrombin, 401:167, 406:501
thylakoid, 401:727
thylakoid lumen, 406:415
thyroid hormone, 403:129
thyroxine (T4), 403:129
tissue inhibitor of metalloproteinase (TIMP), 405:547
tissue inhibitor of metalloproteinases-2 (TIMP-2), 403:553
tissue oxygenation, 405:503
tissue plasminogen activator (tPA), 402:25
Toll-like receptor (TLR), 403:451
tooth development, 405:69
topological model, 401:515
torsinA, 401:607
toxin, 406:309, 406:355
toxofilin, 401:711
trafficking, 404:525, 406:157, 407:171, 408:375
transactivation, 404:197, 406:519
transactivator of transcription (Tat), 407:285
trans-assembly, 406:203
trans-Golgi network (TGN), 406:97
transcobalamin, 403:431
transcription, 401:155, 402:135, 404:289, 405:359, 405:605, 406:437, 407:355, 408:105
transcription activation, 405:243
transcription activators, 402:525
transcription factor, 403:e13, 404:e1
transcription factor IIB (TFIIB), 406:265
transcriptional regulation, 401:57, 401:299, 402:163, 403:177, 403:573, 406:325, 407:101, 407:219, 402:567
transdifferentiation, 404:169
transducer of regulated CREB (TORC), 408:69
transducin-like enhancer of split-1 (TLE1), 408:105
transferrin, 403:43, 404:217
transferrin receptor, 406:1
transferrin superfamily, 406:85
transformation, 406:519
transforming growth factor (TGF), 405:251
transforming growth factor-β signal, 404:235
transforming-growth-factor-β-activated kinase-1 (TAK1), 404:179
transient cell transfection, 405:299
transient receptor potential melastatin 7 (TRPM7), 401:505
transient response, 401:485
transit peptide, 403:e13
transition-state analogue, 402:251
translation factor, 403:217
translational diffusion, 401:533
translesion DNA synthesis (TLS), 402:321
translocation, 403:483, 405:331
transmembrane protein, 401:447
transmissible spongiform encephalopathy, 401:475
transport, 401:365, 407:285
transport proteins, 403:431
transthyretin, 408:131
T_2 relaxation, 401:533
triacylglycerol, 406:457
tricarboxylic acid cycle, 405:1
Trichoderma koningii, 401:551
tri-iodothyronine (T3), 403:129
trimeric G-protein, 401:485
2 (3)-*O*-(2,4,6-trinitrophenyl)adenosine 5-triphosphate (TNP-ATP) affinity, 401:581
tropical parasite, 405:261
tropoelastin, 402:63
truncation, 404:81
Trypanosoma brucei, 402:43, 405:319, 405:445, 407:161
Trypanosoma cruzi, 401:279, 401:399, 401:e5, 403:323
trypanosome, 407:419
trypanothione, 402:43, 405:445
tryparedoxin, 402:43
trypsin, 405:489
tryptase, 403:49
tumorigenesis, 406:427
tumour cell invasion, 405:547
tumour metastasis, 406:49
tumour necrosis factor (TNF), 407:121
tumour necrosis factor-α (TNFα), 406:237, 407:243, 408:277
tumour suppressor, 405:439
two-dimensional electrophoresis, 404:247
type 1 insulin-like growth factor receptor (IGF-1R), 401:269
Type B ribose 5-phosphate isomerase (RpiB), 401:279
type V adenylate cyclase (AC5), 406:383
type XV collagen, 404:535
tyrosinaemia, 402:251
tyrosine kinase, 402:291
tyrosine nitration, 407:89
tyrosine phosphorylation, 402:1

ubiquinone pool, 401:459
ubiquitin, 404:353, 404:509, 405:147, 405:341, 405:481, 405:495, 408:259
ubiquitin-conjugating enzyme 9 (Ubc9), 402:311
ubiquitin-independent degradation, 403:119
ubiquitin–proteasome system, 407:277
ubiquitination, 401:217
UDP-2,3-diacetamido-2,3-dideoxy-α-D-glucuronic acid, 405:123
ultra-high frequency (UHF) radio wave, 405:e5
uncoupling, 407:129
uncoupling protein 2 (UCP2), 402:271
unfolded protein response (UPR), 404:509
unfolding, 403:267
5′-untranslated region, 407:101
uPA receptor (uPAR), 407:153
upstream stimulatory factor (USF), 405:359
urantide, 402:51
urinary-type plasminogen activator, 407:153
urokinase plasminogen activator, 408:203
urotensin II, 402:51
ursolic acid, 403:243
utrophin, 401:667
UV-C, 405:77

vaccinia virus, 407:61
vacuolar H^+ pyrophosphatase, 407:161
vacuolar transporter chaperone, 407:161
vacuole, 408:97
valosin-containing protein (VCP), 404:15
variegate porphyria, 402:575
vascular smooth-muscle cell (VSMC), 407:79
vasopressin, 404:413
Vav, 401:753
venom, 404:413, 406:355
very low density lipoprotein receptor (VLDLr), 408:203
vesicle-associated membrane protein (VAMP), 401:701
vesicle-associated membrane protein 2 (VAMP2), 404:525
Vibrio proteolyticus, 403:527
virosome, 405:41
virtual screening, 405:277
vitamin B_6, 407:1
vitamin C, 407:419
vitamin K, 407:427
Vitreoscilla sp. haemoglobin (VHb), 407:15
voltage-gated sodium channel (Na_v), 406:41
von Hippel–Lindau protein (VHL protein), 408:231, 408:e5, 408:00
von Willebrand factor, 405:597

Walker A motif, 402:397
Walker B motif, 401:581
WAP domain (whey acidic protein domain), 402:93
West Nile virus, 401:743
wheat (*Triticum aestivum*), 403:583
Wilson disease, 401:143, 402:e1, 402:241
WND, 401:143
Wnt-5a, 402:515
Woronin body, 405:533
wortmannin, 403:519

X-band electron paramagnetic resonance (EPR) spectroscopy, 408:19
Xenopus, 404:383
Xenopus laevis oocytes, 405:85
Xenopus tropicalis, 405:61
Xenopus neuronal differentiation, 407:277
Xenopus oocyte maturation, 401:521
X-linked inhibitor of apoptosis protein (XIAP), 405:e1, 405:11
X protein of hepatitis B virus (HBx), 401:247
Xp95, 401:521
X-ray crystallography, 408:29
xylan, 406:209
xylanase inhibitor, 403:583

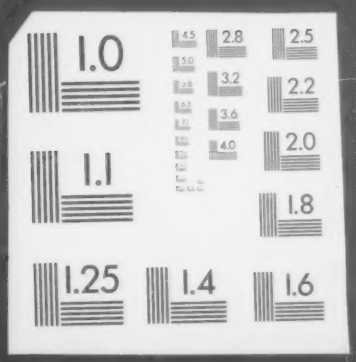
yeast, 401:341, 402:397, 405:541, 405:569, 408:387
yeast hyphal form, 404:365
yeast two-hybrid assay, 402:311, 403:289, 408:347
Yin and Yang 1 (YY1), 401:155

zebrafish, 408:395

© 2008 Biochemical Society

Zellweger syndrome, 401:365
ZFHX1A, 408:79
zinc, 403:527, 405:51, 407:49
zinc binding, 401:667
zinc finger, 402:359
zinc finger domain, 402:175
zinc finger transcription factor, 408:79
zinc ligand, 404:421
zinc signalling, 402:551
zinc-finger protein, 403:177
zinc-finger protein 268 (Zif268), 403:177
zinc-finger protein which regulates apoptosis and cell-cycle arrest 1 (Zac1), 402:359
ZMP, 404:499

© 2008 Biochemical Society


1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0